

PLUMBING ABBREVIATIONS

A/E - ARCHITECT / ENGINEER  
AD - AREA DRAIN  
AFF - ABOVE FINISH FLOOR  
ATC - ABOVE FINISH GRADE  
AG - AIR GAP  
AP - ACCESS PANEL  
AS - AUTOMATIC SPRINKLER  
ASD - ADJUSTABLE SPEED DRIVES  
ASD - AUTOMATIC SPRINKLER DRAIN  
ASHRAE - AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS  
ASME - AMERICAN SOCIETY MECHANICAL ENGINEERS  
ASPE - AMERICAN SOCIETY PLUMBING ENGINEERS  
ASR - AUTOMATIC SPRINKLER RISER  
AV - ACID VENT  
AW - ACID WASTE

BFP - PRESSURE BACKFLOW PREVENTER  
BHP - BREAK HORSEPOWER  
BSP - BLACK STEEL PIPE  
BT - BATHTUB  
BTU - BRITISH THERMAL UNIT  
BTUH - BRITISH THERMAL UNIT PER HOUR

C - CELSIUS  
CGA - COMPRESSED GAS ASSOCIATION  
CI - CAST IRON  
CO - CLEANOUT  
CS - CLINICAL SINK  
CV - CONTROL VALVE

(D) - DEMOLISH AND REMOVE  
DOW - DOMESTIC COLD WATER  
DHW - DOMESTIC HOT WATER  
DHWIR - DOMESTIC HOT WATER RETURN  
DHWIS - DOMESTIC HOT WATER SUPPLY  
DI - DEIONIZED WATER  
DN - DOWN  
DOE - DEPARTMENT OF ENERGY  
DS - DOWNSPOUT  
DT - DRAIN TILE  
DW - DISHWASHER  
DWG - DRAWING  
DWH - DOMESTIC WATER HEATER  
DWR - DRINKING WATER RETURN  
DWS - DRINKING WATER SUPPLY  
DWV - DRAIN WASTE VENT

(E) - EXISTING TO REMAIN  
EL - ELEVATION  
EMCS - ENERGY MONITORING AND CENTRAL SYSTEM  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
EPACT - ENERGY POLICY ACT  
ESC - ESCUTCHEON  
ESH - EMERGENCY SHOWER  
ET - EXPANSION TANK  
EWC - ELECTRIC WATER COOLER  
EWC - ELECTRIC WATER COOLER  
EWH - ELECTRIC WATER HEATER  
EWS - EYE WASH STATION  
EX - EXISTING

F - FAHRENHEIT  
FCO - FLOOR CLEANOUT  
FCW - FILTERED COLD WATER  
FD - FLOOR DRAIN  
FDC - FIRE DEPARTMENT (HOSE) CONNECTION  
FIN - FINISH  
FL - FLOOR  
FM - FLOW METER  
FOP - FUEL OIL PUMP  
FOR - FUEL OIL RETURN  
FOS - FUEL OIL SUPPLY  
FOV - FUEL OIL VENT  
FS - FLOOR SINK  
FS - FLOOR SWITCH  
FU - FIXTURE UNITS

GAL - GALLON  
GCO - GRADE CLEANOUTS  
GPD - GALLONS PER DAY  
GPH - GALLONS PER HOUR  
GPM - GALLONS PER MINUTE  
GRP - GAS PRESSURE REGULATOR  
GRS - GAS REGULATOR STATION  
GT - GREASE TRAP  
GVTR - GAS VENT THROUGH ROOF  
QWH - GAS FIRED WATER HEATER

H&CW - HOT AND COLD WATER  
HB - HOSE BIBB  
HD - HUB DRAIN  
HEX - HEAT EXCHANGER  
HP - HORSEPOWER  
HS - HAND SINK  
HST - HOT WATER STORAGE TANK (DOMESTIC)  
HWB - HOT WATER BOILER  
HWCP - HOT WATER CIRCULATING PUMP  
HWP - HOT WATER PUMP  
HYD - HYDRANT

ICW - INDUSTRIAL COLD WATER  
INV - INVERT  
IPC - INTERNATIONAL PLUMBING CODE  
IRW - IRRIGATION WATER  
IW - INDIRECT WASTE  
IWH - INSTANTANEOUS WATER HEATER  
IWR - INDUSTRIAL WATER RETURN  
IWS - INDUSTRIAL WATER SUPPLY

KW - KILOWATT  
KWHR - KILOWATT-HOUR

NOTE:  
ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE INDICATED ON THE DRAWINGS.

L/S - LITER PER SECOND  
LA - LABORATORY AIR  
LAV - LAVATORY  
LBHR - POUNDS PER HOUR  
LWC - LABORATORY COLD WATER  
LHW - LABORATORY HOT WATER  
LHWIR - LABORATORY HOT WATER RETURN  
LNG - LIQUID NATURAL GAS  
LOX - LIQUID OXYGEN  
LV - LABORATORY VACUUM  
LW - LABORATORY WASTE  
LWV - LABORATORY WASTE VENT

M - METER  
MA - MEDICAL AIR  
MAV - MANUAL AIR VENT  
MBH - 1000 BTUH  
MED - MEDICAL  
MER - MECHANICAL EQUIPMENT ROOM  
MH - MANHOLE  
MOU - MEMORANDUM OF UNDERSTANDING  
MSB - MOP SERVICE BASIN  
MV - MEDICAL VACUUM

(N) - NEW, NEW WORK  
N2 - NITROGEN  
N2O - NITROUS OXIDE  
NC - NORMALLY CLOSED  
NG - NATURAL GAS  
NIC - NOT IN CONTRACT  
NO - NORMALLY OPEN  
NOM - NOMINAL  
NPW - NON POTABLE WATER  
NTC - NOT TO SCALE

O2 - OXYGEN  
OC - ON CENTER  
OD - OUTSIDE DIAMETER  
OFD - OVERFLOW DRAIN  
OR - OPERATING ROOM  
OVFL - OVERFLOW

PA - PASCAL  
PD - PRESSURE DROP OR DIFFERENCE  
PDI - PLUMBING AND DRAINAGE INSTITUTE  
PG - PRESSURE GAGE  
PP - PLUMBING PUMP  
PPM - PARTS PER MILLION  
PRR - PRESSURE REDUCING STATION  
PRV - PRESSURE REDUCING VALVE  
PSI - POUNDS PER SQUARE INCH  
PSIA - POUNDS PER SQUARE INCH ATMOSPHERE  
PSIG - POUNDS PER SQUARE INCH GAUGE  
PTRV - PRESSURE TEMPERATURE RELIEF VALVE  
PW - POTABLE WATER

RD - ROOF DRAIN  
RDL - ROOF DRAIN LEADER  
RL - ROOF LEADER  
RO - REVERSE OSMOSIS WATER  
RWL - RAIN WATER LEADER

SAN - SANITARY SEWER  
SMAACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION  
SCFM - STANDARD CUBIC FOOT/MINUTE  
SCW - SOFTENED COLD WATER  
SD - STORM DRAIN  
SDMH - STORM DRAIN MANHOLE  
SP - SUMP PUMP  
SPR - SPRINKLER LINE  
SQFT - SQUARE FEET  
SS - STAINLESS STEEL  
ST - STORAGE TANK  
SW - STORM WATER

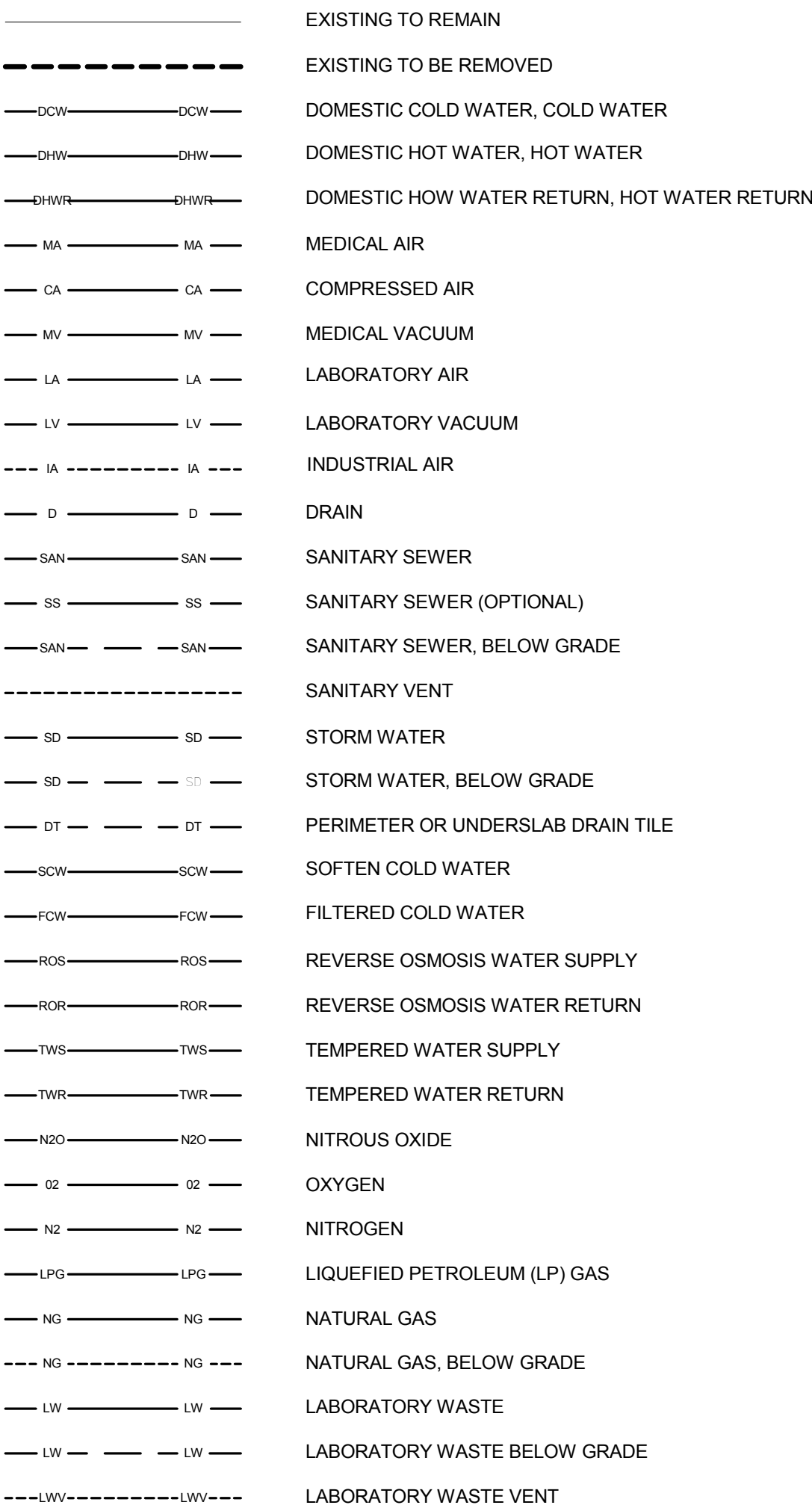
TCV - TEMPERATURE CONTROL VALVE  
TD - TEMPERATURE DIFFERENCE  
TD - TRENCH DRAIN  
TDH - TOTAL DYNAMIC HEAD  
TEMP - TEMPERATURE  
TMV - THERMOSTATIC MIXING VALVE  
TP - TRAP PRIMER  
TSTAT - THERMOSTAT  
TWR - TEMPERED WATER RETURN  
TWS - TEMPERED WATER SUPPLY  
TYP - TYPICAL

UPC - UNIFORM PLUMBING CODE  
UR - URINAL  
V - VENT  
VAC - VACUUM  
VB - VACUUM BREAKER  
VCO - VACUUM CLEANER OUTLET  
VP - VACUUM PUMP  
VS - VENT STACK  
VTR - VENT THROUGH ROOF

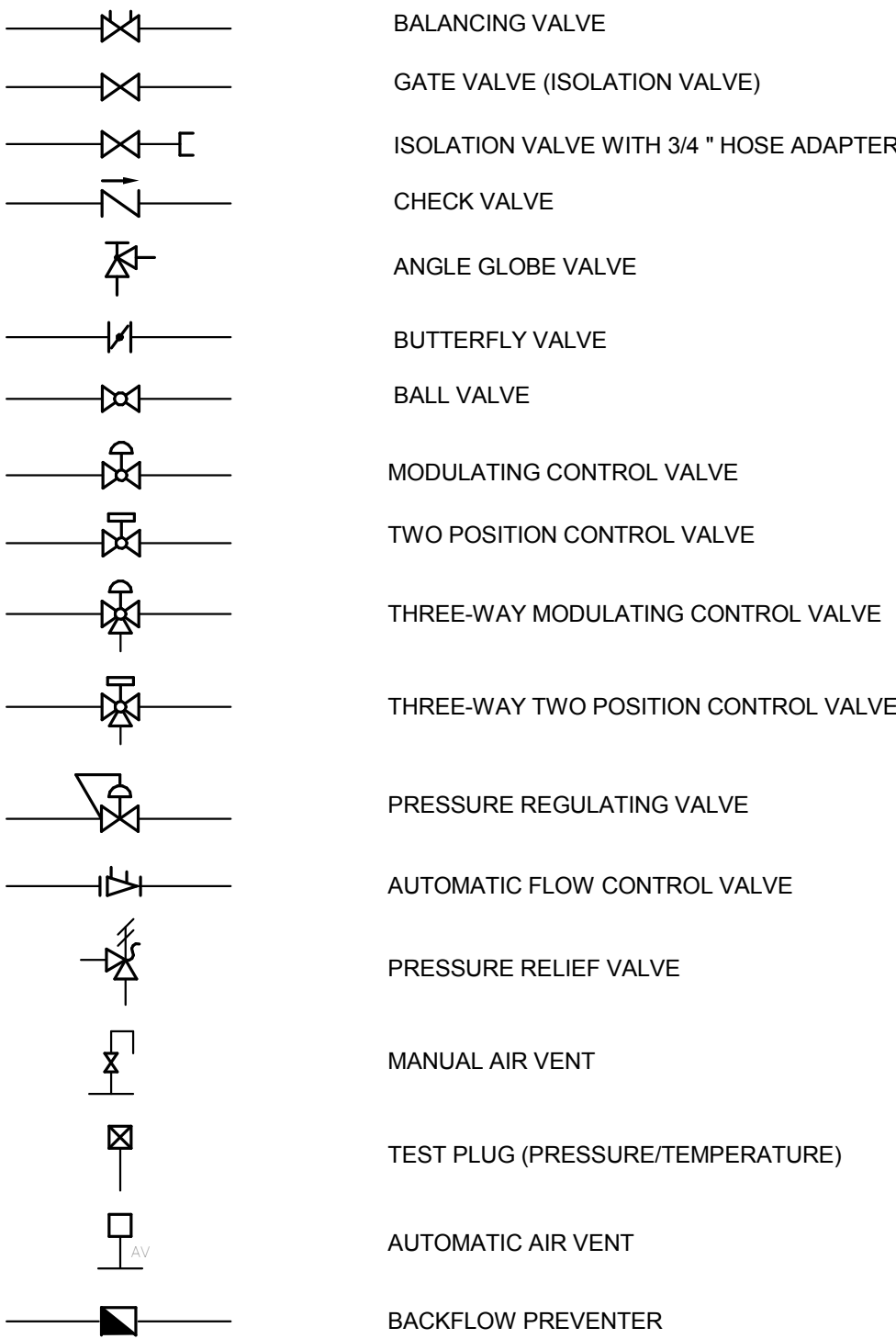
W - WASTE  
WC - WATER CLOSET  
WCO - WALL CLEANOUT  
WG - WATER GAGE  
WH - WALL HYDRANT  
WH - WATER HEATER  
WHA - WATER HAMMER ARRESTER  
WL - WATER LINE  
WM - WATER METER  
WPD - WATER PRESSURE DROP  
WS - WASTE STACK

YCO - YARD CLEANOUT  
YH - YARD HYDRANT

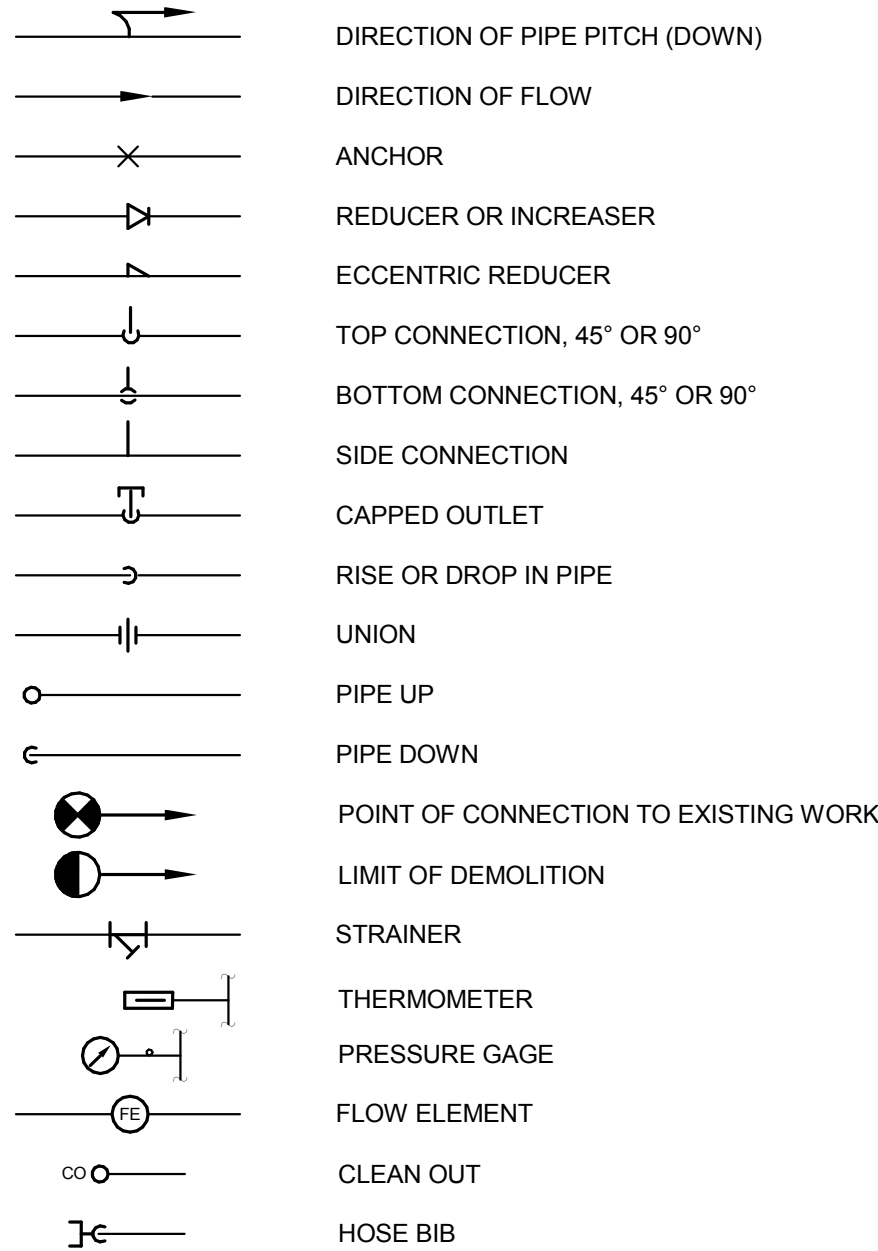
PLUMBING PIPING SYMBOLS



PLUMBING VALVE SYMBOLS



GENERAL PLUMBING SYMBOLS



GENERAL NOTES

GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS, PIPE SIZES AND MATERIALS, FLUID FLOW DIRECTION(S) AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK. (DO NOT SCALE DRAWINGS).
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES EVEN IF THE UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES AT THEIR OWN EXPENSE AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DAMAGES CAUSED BY A SYSTEM BEING DOWN.
- THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION.
- INSTALL ALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS AND THE APPLICABLE CODES, STANDARDS AND REGULATIONS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, TEMPORARY FENCES, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REVISED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
- ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES, INDUSTRY STANDARDS AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
- WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.
- WORK ALL DRAWINGS WITH THE PROJECT SPECIFICATIONS.
- PIPING SHOWN ON RESPECTIVE PLANS SERVES FIXTURES AND EQUIPMENT ON THAT FLOOR UNLESS OTHERWISE NOTED.
- PIPING RISING WITHIN A STORY IS DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DN".

PLUMBING NOTES

- ALL PIPING MATERIALS AND COMPONENTS INCLUDING FITTINGS, PIPE, FLANGES, VALVES, ETC. SHALL BE DESIGNATED, FABRICATED AND INSTALLED PER THE APPROPRIATE SECTIONS OF THE LATEST CODES, VETERAN'S AFFAIRS PLUMBING STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- ALL SANITARY SEWERS 2" AND SMALLER SHALL SLOPE 1/4" PER FOOT (MIN), ALL SANITARY SEWERS 3" AND LARGER SHALL SLOPE 1/8" PER FOOT (MIN.) IN THE DIRECTION OF FLOW.
- ALL HORIZONTALLY ROUTED WASTE VENTS SHALL BE INSTALLED WITH A SLOPE TO FACILITATE GRAVITY DRAINAGE TO THE WASTE SYSTEM.
- ALL CLEANOUTS INSTALLED IN THE SEWER SYSTEM SHALL BE SIZED AS FOLLOWS:

PIPE SIZE	SIZE OF CLEANOUT
2"	2"
2 1/2"	2 1/2"
3"	3"
4-6"	4"
- CLEANOUTS INSTALLED IN HORIZONTAL DRAINAGE PIPING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 100'.
- THE MAXIMUM VERTICAL DISTANCE FROM THE FIXTURE OUTLET (LAVATORY, FLOOR DRAIN ETC.) TO THE TRAP WEIR SHALL BE 24".
- SURFACES TO BE SOLDERED SHALL BE CLEANED BRIGHT. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. SOLDER JOINTS FOR POTABLE WATER SHALL BE MADE WITH A SOLDER CONTAINING NOT MORE THAN 0.2 PERCENT LEAD.
- UNIONS SHALL BE INSTALLED AT ALL EQUIPMENT. THE USE OF DIELECTRIC UNIONS AND FLANGES MUST BE INSTALLED IN AREAS WHERE JOINING OF DISSIMILAR METALS (ie CARBON STEEL TO COPPER OR BRONZE, ETC.) THIS IS TO FACILITATE PIPING REMOVAL AND REASSEMBLY FOR FUTURE MAINTENANCE WORK AND/OR PREVENT GALVANIC CORROSION.
- CONTRACTOR SHALL PROPERLY BRACE, ANCHOR, AND SUPPORT ALL PIPING, VALVES ETC. IN ACCORDANCE WITH MSS SP-88.
- PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH MSS-88.
- ALL POTABLE WATER BRANCHES SHALL BE INSTALLED WITH ISOLATION VALVES CLOSE TO MAIN.
- ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER ISOLATION VALVES.
- CONTRACTOR SHALL PROVIDE WALL ACCESS COVERS TO ALL CLEANOUTS AND VALVES LOCATED WITHIN WALLS.
- ALL WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES SHALL BE PROTECTED IN ACCORDANCE WITH VETERAN'S AFFAIRS STANDARDS.
- ALL PIPES OR TUBING WHICH PASS THROUGH RATED AND NON-RATED WALLS, FLOORS AND FOUNDATION WALLS, SHALL PASS THROUGH A SCHEDULE 40 CARBON STEEL PIPE SLEEVE. SLEEVES WHICH PASS THROUGH MASONRY SHALL BE GALVANIZED COATED. ALL SLEEVES SHALL BE INSTALLED FLUSH ON BOTH SIDES OF WALL PENETRATION.  
INSULATED AND NONINSULATED PIPES AND TUBING  
RATED WALLS - PIPES WHICH PASS THROUGH FIRE-RATED WALLS & FLOOR SHALL USE THE APPROPRIATE CODE APPROVED, TESTED AND INSTALLATION METHOD OF SEALING WHILE MAINTAINING THE INTEGRITY OF THE WALL'S FIRE RATING(S).  
EXTENSION WALLS & FOUNDATION - PIPES WHICH PASS THROUGH EXTENSION WALLS OR FOUNDATION WALLS SHALL BE SEALED AND MADE WEATHER-TIGHT.
- INSULATE COLD AND HOT WATER PIPING PER THE PROJECT DOCUMENTS WITH FIRE RETARDANT VAPOR BARRIER JACKET. PIPE INSULATION SHALL BE SEALED WITH A FIRE RESISTIVE ADHESIVE.
- CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND COORDINATION OF INSPECTIONS OF THE ENTIRE POTABLE WATER, SANITARY SEWER AND VENT SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH THE VETERAN'S AFFAIRS STANDARDS AND THE INTERNATIONAL PLUMBING CODE.
- ALL PIPING AND VALVES SHALL BE PROPERLY IDENTIFIED, LABELED AND TAGGED.
- CONTRACTOR SHALL FLUSH AND DISINFECT THE ENTIRE POTABLE WATER SYSTEM. FLUSHING AND DISINFECTION OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE VETERAN'S AFFAIRS STANDARDS AND THE INTERNATIONAL PLUMBING CODE.
- PROVIDE THREE (3) ELBOW SWING JOINTS FOR ALL DOMESTIC HOT WATER CONNECTIONS TO THE MAIN.
- CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL EXPANSION/CONTRACTION COMPENSATION IN THE DOMESTIC HOT WATER AND RECIRCULATION SYSTEMS, LIMITING THE MAXIMUM MOVEMENT TO 1 1/2" OR LESS. ANCHORS & RESTRAINTS SHALL BE INSTALLED WHERE NECESSARY AND ADJACENT FIRE RATED WALLS AND FLOORS. ALL PIPES SHALL BE PROPERLY GUIDED INTO THE THERMAL EXPANSION LOOPS OR COMPENSATORS.

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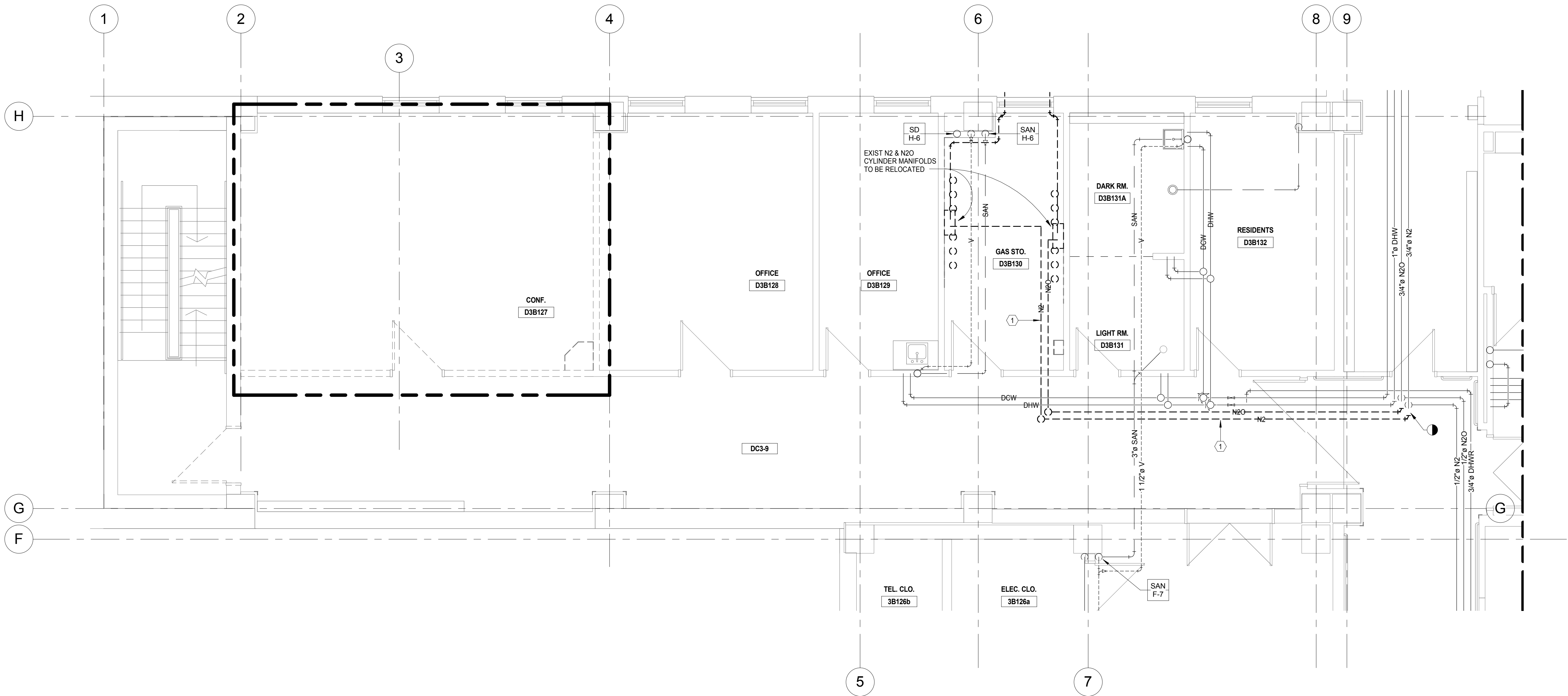
CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER		ARCHITECT / ENGINEERS:		Drawing Title <b>PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS</b>		Project Number <b>581-13-101</b>		Office of Construction and Facilities Management					
							Approved: Medical Center Director		Building Number <b>1S</b>							
									Drawing Number <b>P0.01</b>							
NO. DESCRIPTION DATE									Location <b>HUNTINGTON, WV</b>		Date <b>10.31.2014</b>		Checked <b>MP</b>	Drawn <b>PD</b>	Dwg. 153 of 178	

GENERAL SHEET NOTES:

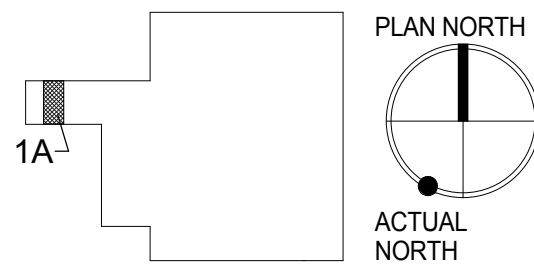
1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.04 FOR PLUMBING SYSTEM RISER DIAGRAMS.
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWINGS P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:




1. EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.



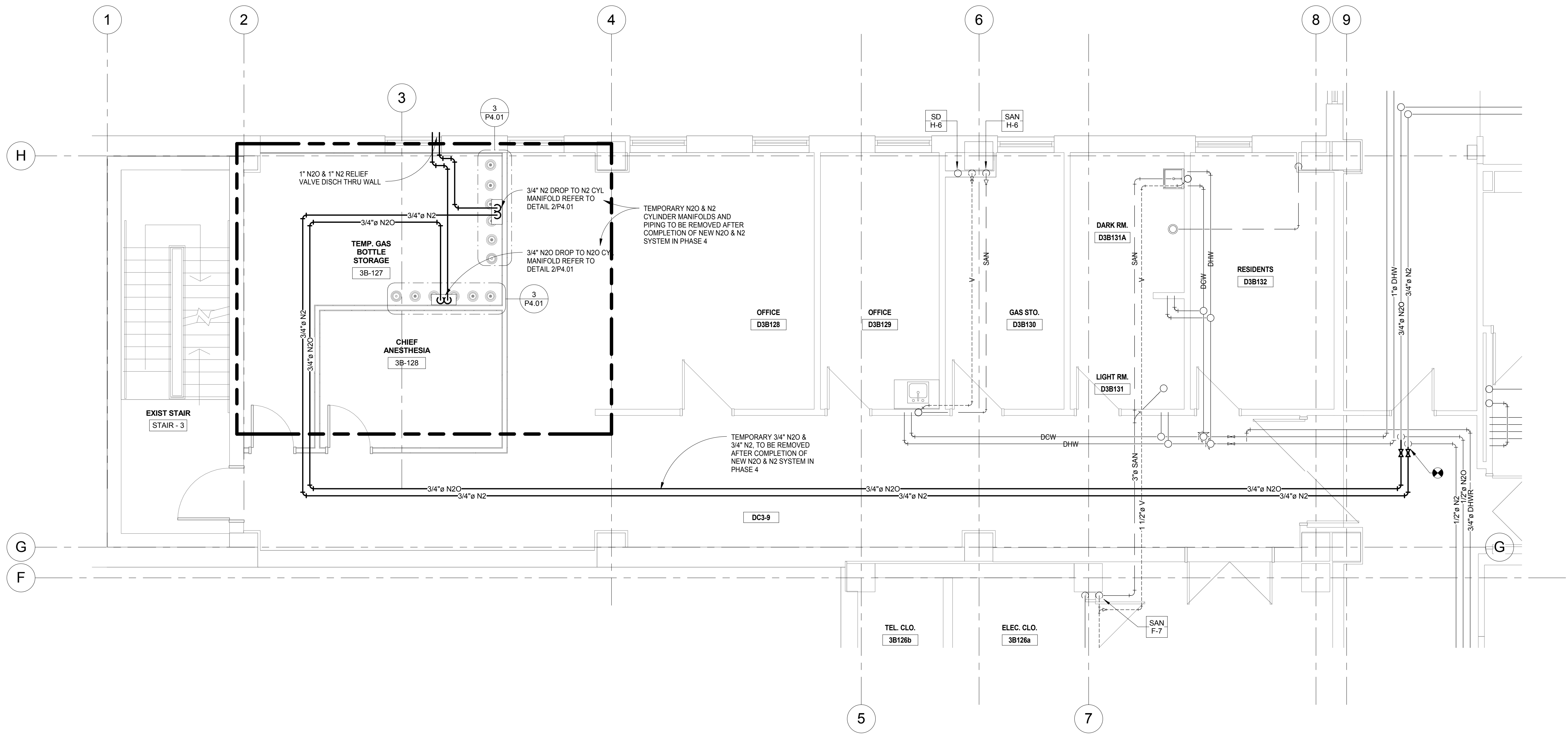
1 PHASE\_1a\_3rd FLOOR PLAN - DEMO - PLBG  
1/4" = 1'-0"



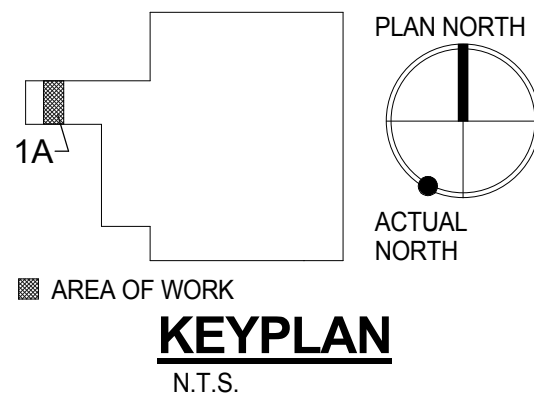
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			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 1A - 3RD FLOOR - DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>		Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>					
												Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>				Building Number <b>1S</b>			
												Date <b>10.31.2014</b>			Checked MP				Drawn PD		Drawing Number <b>P1A-PD1.01</b>	
NO. DESCRIPTION DATE															Dwg. 154 of 178							


- GENERAL SHEET NOTES:
- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
  - REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS
  - REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
  - REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
  - REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM



1 PHASE\_1a\_3rd FLOOR PLAN - NEW WORK - PLBG  
1/4" = 1'-0"



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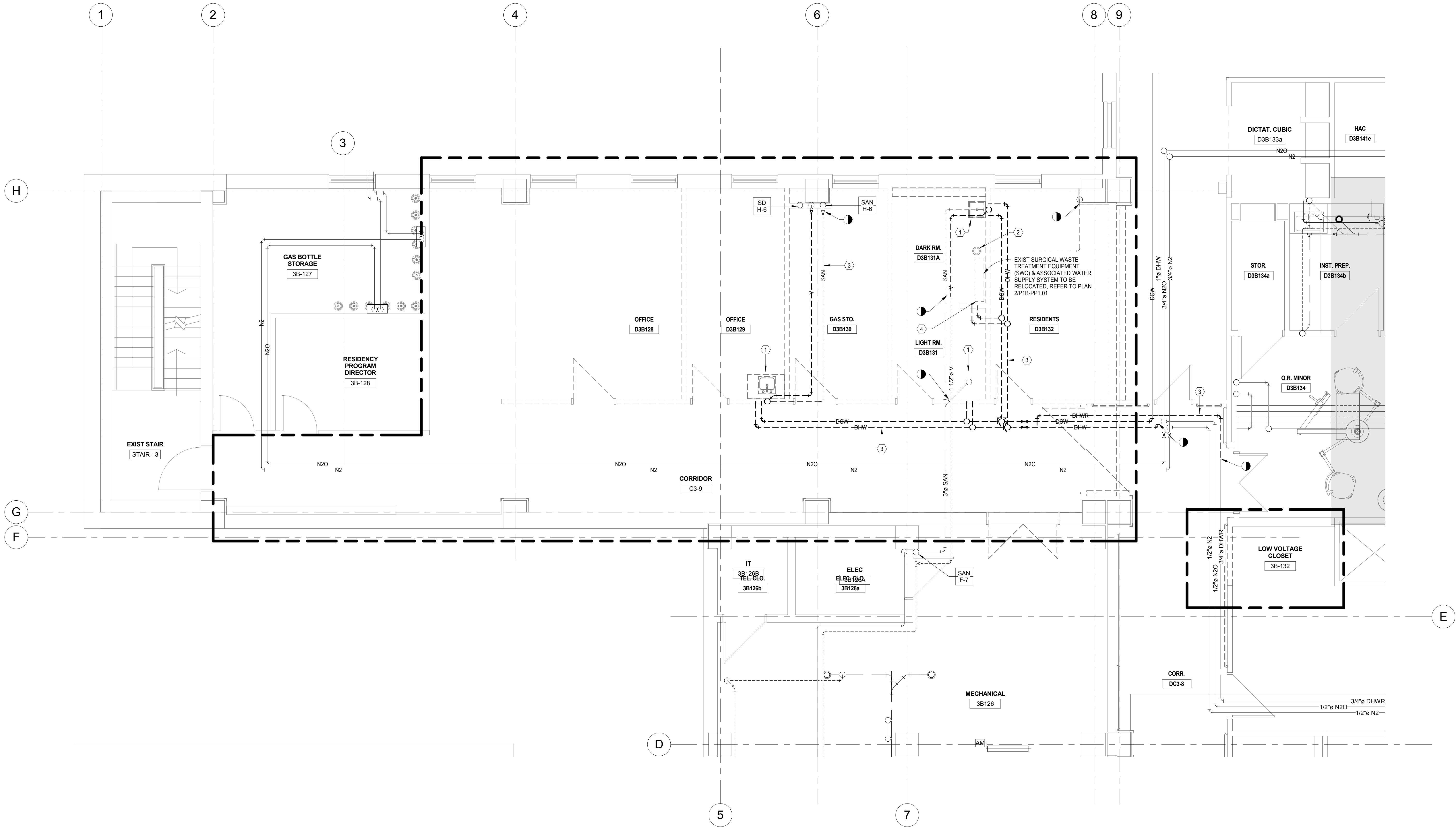
			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 1A - 3RD FLOOR - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>		Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>	
									Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Building Number <b>1S</b>			
NO. DESCRIPTION DATE																		

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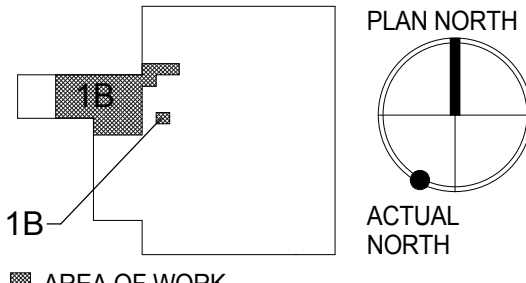
- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- REFER TO DRAWINGS P0.01 TO P3.00 FOR PLUMBING SYSTEM RISER DIAGRAMS.
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- REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
- REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:





- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
- EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
- EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
- EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.



1 PHASE\_1b\_3rd FLOOR PLAN - DEMO - PLBG  
1/4" = 1'-0"



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			CONSULTANTS:		MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER		ARCHITECT / ENGINEERS:		Drawing Title <b>PLUMBING PHASE 1B - 3RD FLOOR -DEMOLITION</b>		Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>		Project Number <b>581-13-101</b>		Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>			
							 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)420-4000 FAX: (856)420-5002				Approved: Medical Center Director		Location <b>HUNTINGTON, WV</b>				Drawing Number <b>P1B-PD1.01</b>	
									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-0537 Fax: 757-471-4205 <a href="http://www.pfa-architect.com">www.pfa-architect.com</a>		Date <b>10.31.2014</b>		Checked MP				Drawn PD	
																	Dwg. 156 of 178	
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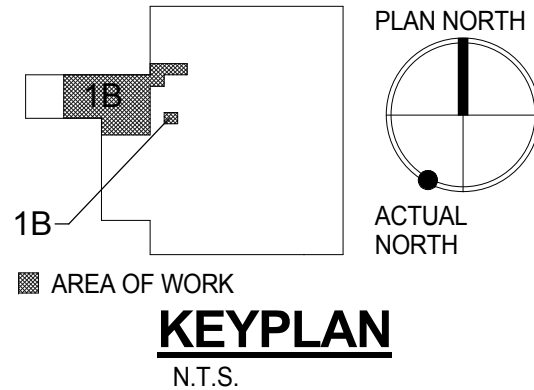
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4. REFER TO DRAWINGS P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:




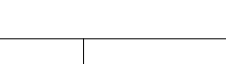

- 1 4" SAN DN & 2" VENT RISE.
- 2 4" SAN DROP & 2" VENT RISE.
- 3 1-1/2" SAN DROP & 1-1/2" VENT RISE.
- 4 2" SAN DN & 2" VENT RISE.
- 5 2" VENT RISE & DN.
- 6 1/2" DCW & 1/2" DHW DROP.
- 7 1-1/2" DCW DROP.
- 8 2" SAN DROP & 1-1/2" VENT RISE.
- 9 1-1/2" SAN DN & 1-1/2" VENT RISE.
- 10 CAP FOR FUTURE PHASE EXTENSION.
- 11 1/2" DCW DROP TO FD FROM TP-2, REFER TO DETAIL 7/P4.01.

1 PHASE\_1b\_3rd FLOOR PLAN - NEW WORK - PLBG  
1/4" = 1'-0"

2 PHASE\_1b SURGICAL WASTE PLAN  
1/4" = 1'-0"

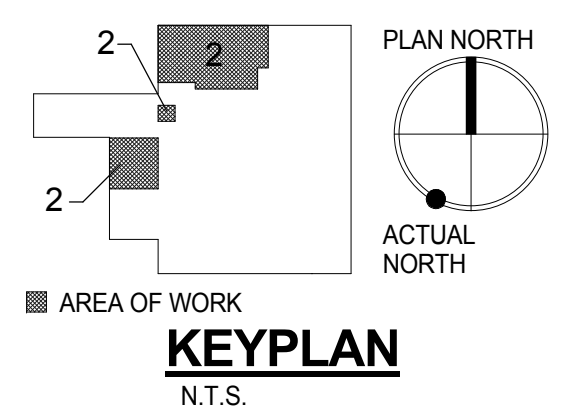


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			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 1B - 3RD FLOOR - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>											
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-0537 Fax: 757-471-4205  www.pfa-architect.com						Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P1B-PP1.01</b>		
															Date <b>10.31.2014</b>			Checked MP						Drawn PD			Dwg.157 of 178					
NO. DESCRIPTION DATE																																

1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

- 1 EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
- 2 EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
- 3 EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.
- 4 EXISTING SCRUB SINK TO BE REMOVED AND RELOCATED.
- 5 EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGICAL EQUIPMENT AND OUTLETS TO BE REMOVED.
- 6 EXISTING MEDICAL GAS ZONE VALVE PANEL ASSEMBLY TO BE REMOVED.
- 7 EXISTING 4" SD UP TO RD TO BE REMOVED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
- 8 EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.



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			CONSULTANTS:			<div>MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER</div> <div></div>			ARCHITECT / ENGINEERS:			<div><b>Miller-Remick LLC</b> M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4500 FAX: (856)429-5002</div> <div></div> <div></div> <div>PF&amp;A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4205 www.pfa-architect.com</div>			<div>Drawing Title <b>PLUMBING PHASE 2 - 3RD FLOOR - DEMOLITION</b></div> <div>Approved: Medical Center Director</div>			<div>Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b></div> <div>Location <b>HUNTINGTON, WV</b></div> <div>Date <b>10.31.2014</b><div>Checked <b>MP</b></div><div>Drawn <b>PD</b></div></div>			<div>Project Number <b>581-13-101</b></div> <div>Building Number <b>1S</b></div> <div>Drawing Number <b>P2-PD1.01</b></div> <div>Dwg. 158 of 178</div>			<div>Office of Construction and Facilities Management</div> <div> <b>Department of Veterans Affairs</b></div>		
NO.	DESCRIPTION	DATE																								

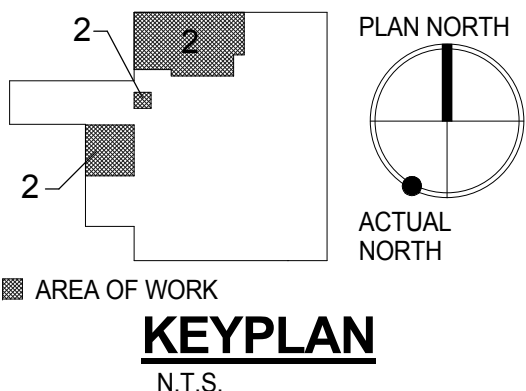
GENERAL SHEET NOTES:

- 1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS.
- 3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
- 5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.


SHEET KEYNOTES:

- 1. 1/2" N2, 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
- 2. 1/2" N2, 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
- 3. 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
- 4. 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
- 5. CAP FOR FUTURE PHASE EXTENSION.
- 6. 3" SAN UP TO FD INSTALLED IN PEM BY MANUFACTURER.
- 7. 3/4" DCW & 3/4" DHW DROP.
- 8. 4" SD UP TO RD.
- 9. 1/2" N2O, (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO ANESTHESIA COLUMN/BOOM.
- 10. (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO SURGICAL COLUMN/EQUIPMENT BOOM.
- 11. 2" SAN DROP & 1-1/2" VENT RISE.
- 12. 1/2" N2 DROP TO PRESSURE CONTROL PANEL.
- 13. 3" OFFSET VENT STACK RISE & DN.
- 14. 3" SAN RISE & DN.
- 15. 3" SAN DN & 2" VENT RISE.
- 16. 2" VENT RISE & DN.
- 17. 3" VENT THRU ROOF.
- 18. 2" VENT THRU ROOF.
- 19. 1" DCW UP TO PEM MAKE UP WATER CONNECTION, SHUT-OFF VALVES AND BFP ASSEMBLY PROVIDED BY PEM MANUFACTURER.
- 20. ALL LABOR AND MATERIAL TO SUPPORT NEW AND RELOCATED SURGICAL EQUIPMENT BOOMS, LIGHT BOOMS, AND GAS COLUMNS, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SUPPLEMENTAL STRUCTURAL STEEL FRAMING AND SUPPORTS TO BE PROVIDED AND INSTALLED BY BOOM/COLUMN MANUFACTURER. TYPICAL FOR ROOMS 3B-135, 3B-136, 3B-137, 3B-139, 3B-141, 3B-143 (OR'S 1-6). REFER TO MANUFACTURER SUBMITTED DETAILS AND DRAWINGS. MANUFACTURER TO SUBMIT FRAMING PLANS AND CALCULATIONS. STAMPED BY A PROFESSIONAL ENGINEER, OF NEW AND RELOCATED EQUIPMENT SUPPORTS ATTACHED TO EXISTING OR NEW STRUCTURES, TO THE ENGINEER FOR REVIEW PRIOR TO STARTING THE WORK. CONTRACTOR TO COORDINATE WORK WITH ALL TRADES PRIOR TO STARTING THE WORK.

1 PHASE\_2\_3rd FLOOR PLAN - NEW WORK - PLBG  
1/4" = 1'-0"



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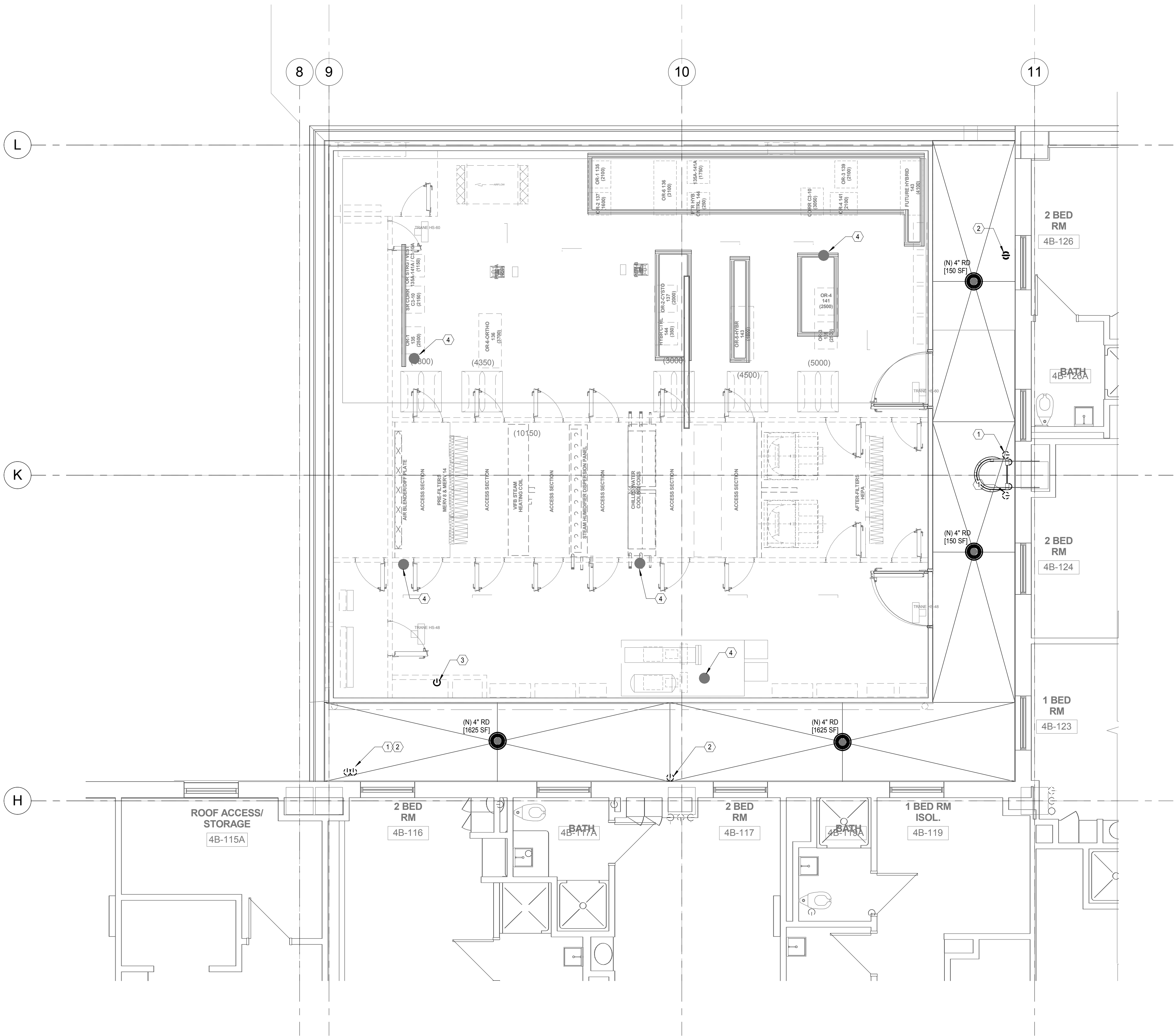
			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 2 - 3RD FLOOR - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>		Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>			
									Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Building Number <b>1S</b>					
NO. DESCRIPTION DATE									Date <b>10.31.2014</b>			Checked <b>MP</b>		Drawn <b>PD</b>		Drawing Number <b>P2-PP1.01</b>				
																			Dwg. 159 of 178	

GENERAL SHEET NOTES:

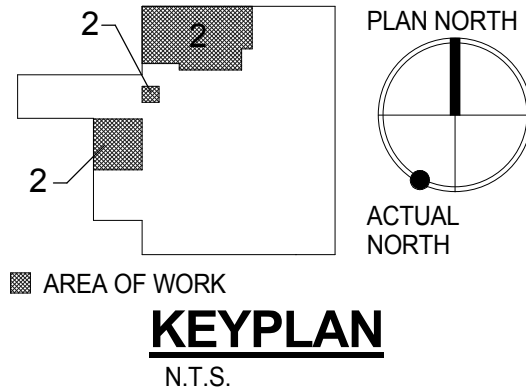
1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.08 FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:






1. 3" VENT THRU ROOF.
2. 2" VENT THRU ROOF.
3. 1" DCW UP TO PEM MAKE UP WATER CONNECTION, SHUT-OFF VALVES AND BFP ASSEMBLY PROVIDED BY PEM MANUFACTURER.
4. 3" SAN UP TO FD INSTALLED IN PEM BY MANUFACTURER.



1 PHASE 2 3TH FLOOR ROOF PLAN - NEW WORK -PLBG  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 2 - 3RD FLOOR ROOF - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>											
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)425-4000 FAX: (856)425-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-0637 Fax: 757-471-4205  www.pfa-architect.com						Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P2-PP1.02</b>		
															Date <b>10.31.2014</b>			Checked MP						Drawn PD			Dwg. 160 of 178					
NO. DESCRIPTION DATE																																

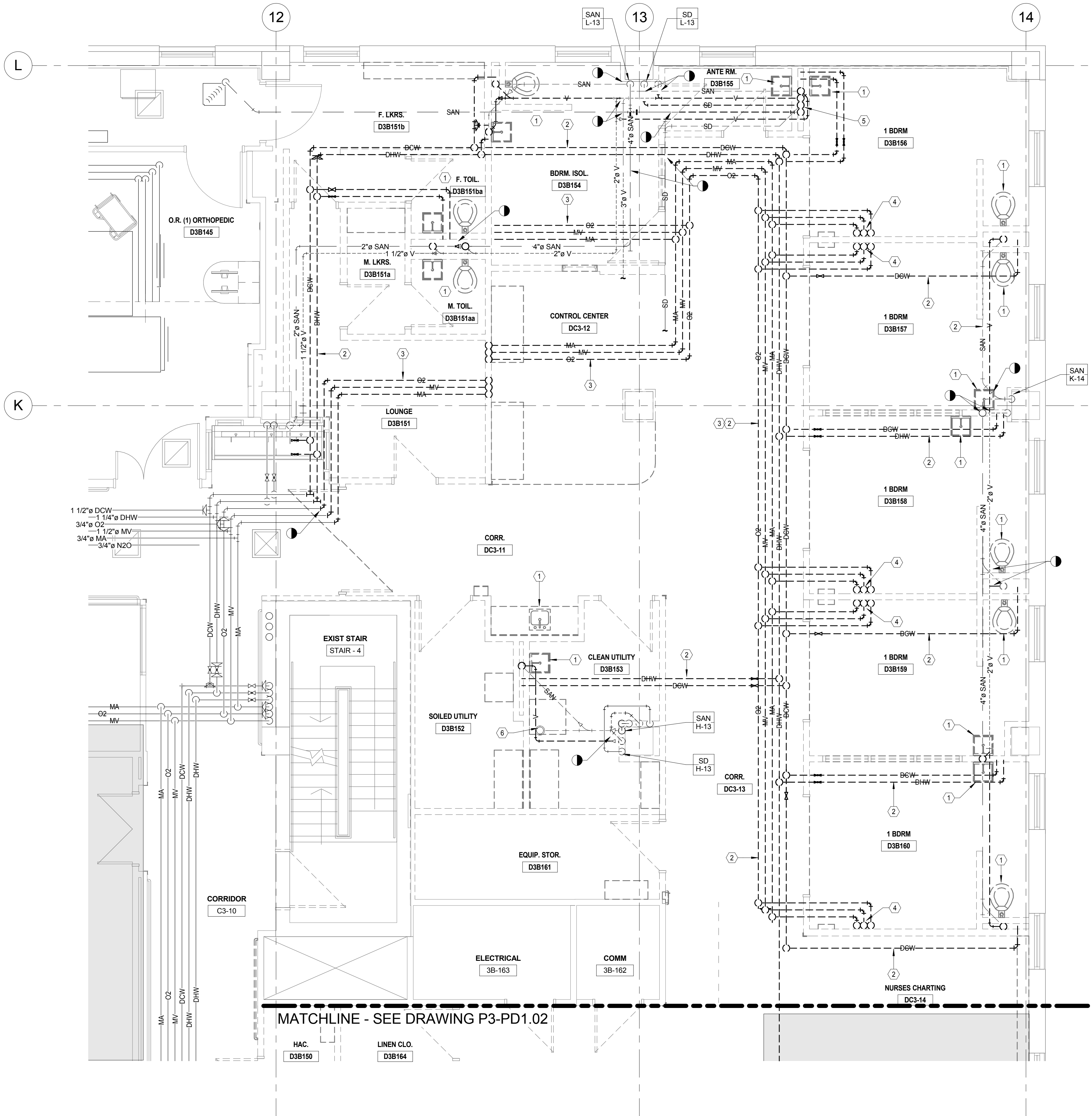


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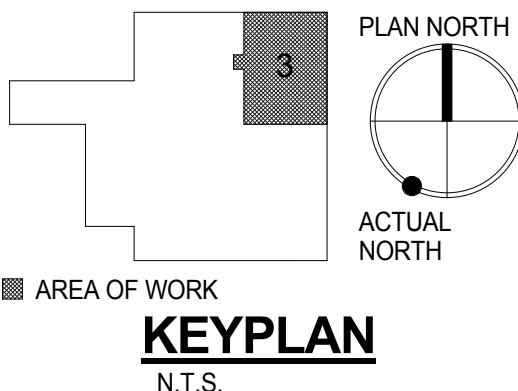
- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS
- REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
- REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
- REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:



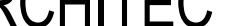


- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
- EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
- EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
- EXISTING MEDICAL GAS PIPING TO PATIENT HEAD WALL UNIT TO BE REMOVED.
- EXISTING OFFSET VENT, SANITARY AND STORM DRAIN RISERS TO BE RELOCATED.
- EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.



1 PHASE 3\_3rd FLOOR PLAN - AREA A DEMO - PLBG  
1/4" = 1'-0"



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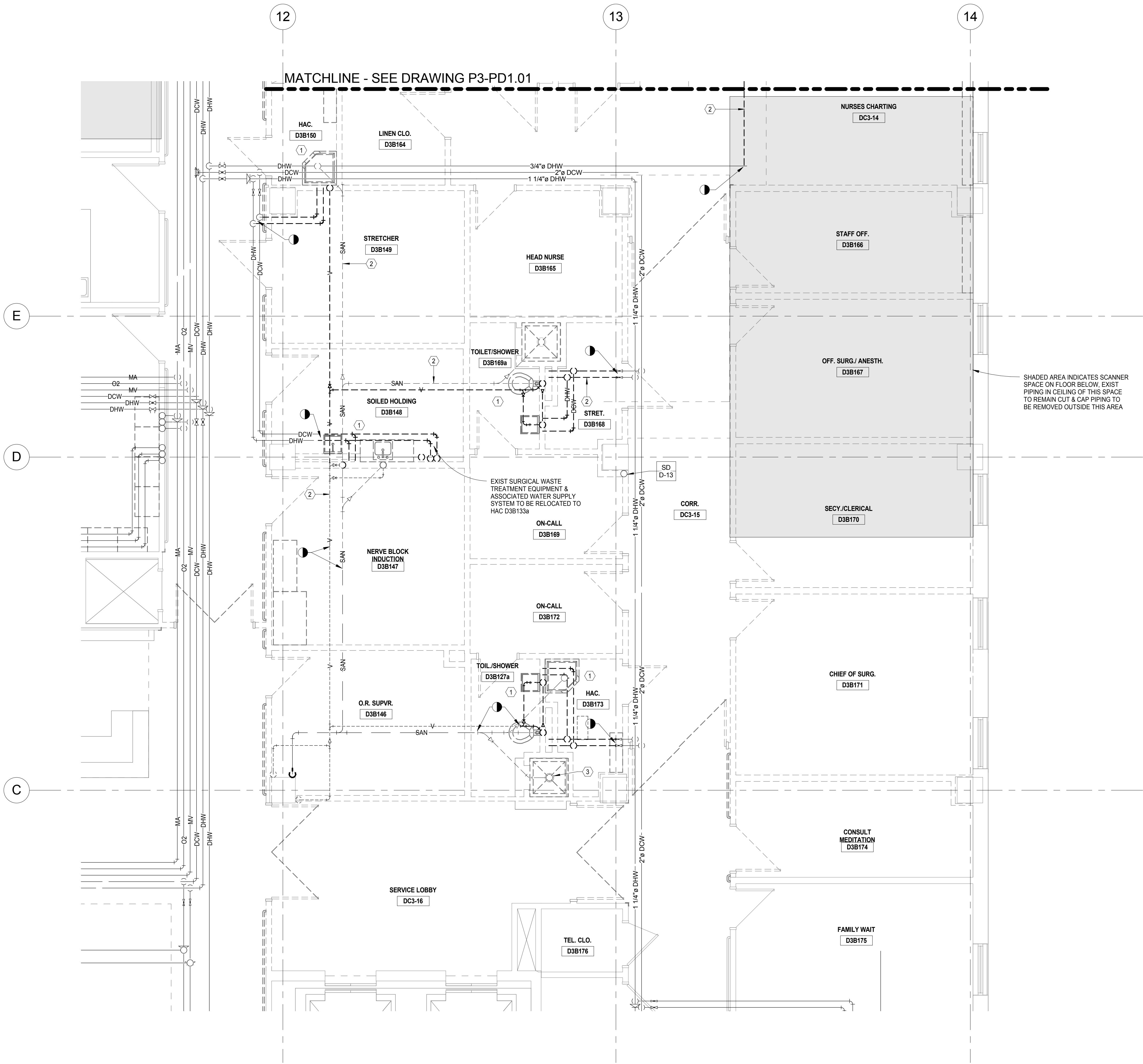
			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 3 - 3RD FLOOR AREA A - DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>		Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>										
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)425-4000 FAX: (856)425-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-0637 Fax: 757-471-4205  www.pfa-architect.com				Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P3-PD1.01</b>		
															Date <b>10.31.2014</b>			Checked <b>MP</b>				Drawn <b>PD</b>		Dwg. 161 of 178						
NO. DESCRIPTION DATE																														

GENERAL SHEET NOTES:

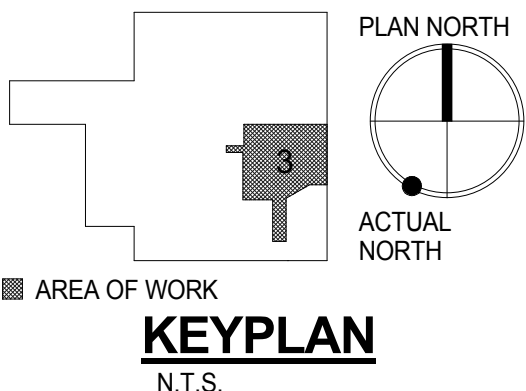
- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS
- REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
- REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
- REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:






- EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
- EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
- EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.



1 PHASE\_3\_3rd FLOOR PLAN - AREA B DEMO - PLBG  
1/4" = 1'-0"



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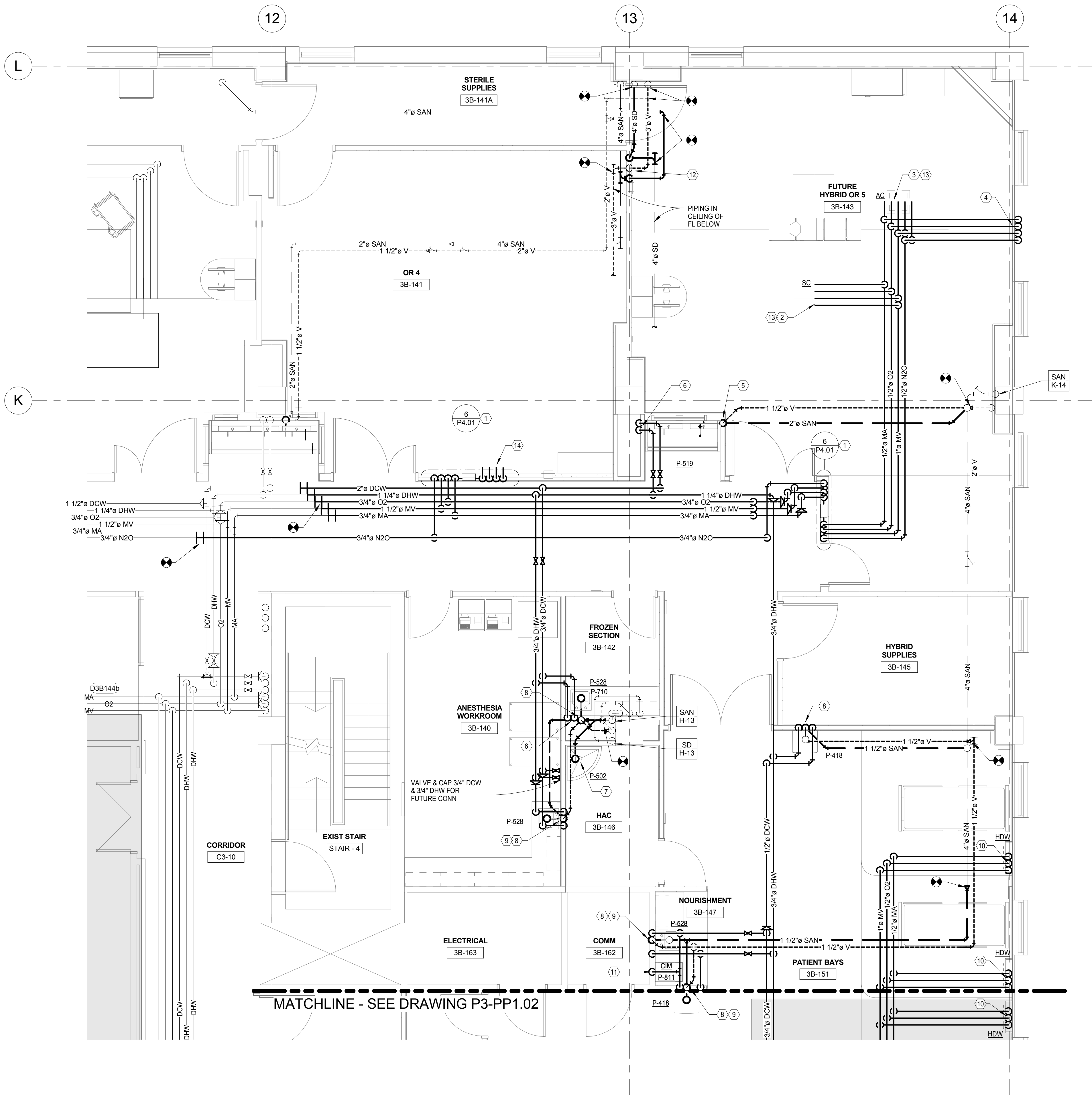
			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 3 - 3RD FLOOR AREA B - DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management   <b>Department of Veterans Affairs</b>											
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business  1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)425-4000 FAX: (856)425-5002									PFAA DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510  Phone: 757-471-6637 Fax: 757-471-6205 www.pfaa-architect.com						Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P3-PD1.02</b>		
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NO. DESCRIPTION DATE																																

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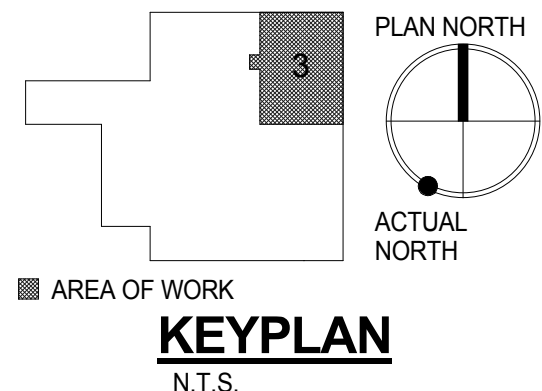
1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.04 FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:

- 1 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
- 2 (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO SURGICAL COLUMN/EQUIPMENT BOOM.
- 3 1/2" N2O, (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO ANESTHESIA COLUMN/BOOM.
- 4 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
- 5 2" SAN DROP & 1-1/2" VENT RISE.
- 6 3/4" DCW & 3/4" DHW DROP.
- 7 3" SAN UP TO MSB.
- 8 1-1/2" SAN DN & 1-1/2" VENT RISE.
- 9 1/2" DCW & 1/2" DHW DROP.
- 10 3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.
- 11 1-1/2" DCW DROP.
- 12 4" SD, 3" VENT & 4" SAN RISE & DN (EXIST RISERS TO BE RELOCATED)
- 13 ALL LABOR AND MATERIAL TO SUPPORT NEW AND RELOCATED SURGICAL EQUIPMENT BOOMS, LIGHT BOOMS, AND GAS COLUMNS, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SUPPLEMENTAL STRUCTURAL STEEL FRAMING AND SUPPORTS TO BE PROVIDED AND INSTALLED BY BOOM/COLUMN MANUFACTURER. TYPICAL FOR ROOMS 3B-135, 3B-136, 3B-137, 3B-138, 3B-141, 3B-143 (OR S 1-6). REFER TO MANUFACTURER SUBMITTED DETAILS AND DRAWINGS. MANUFACTURER TO SUBMIT FRAMING PLANS AND CALCULATIONS, STAMPED BY A PROFESSIONAL ENGINEER, OF NEW AND RELOCATED EQUIPMENT SUPPORTS ATTACHED TO EXISTING OR NEW STRUCTURES, TO THE ENGINEER FOR REVIEW PRIOR TO STARTING THE WORK. CONTRACTOR TO COORDINATE WORK WITH ALL TRADES PRIOR TO STARTING THE WORK.
- 14 CAP FOR FUTURE PHASE EXTENSION.

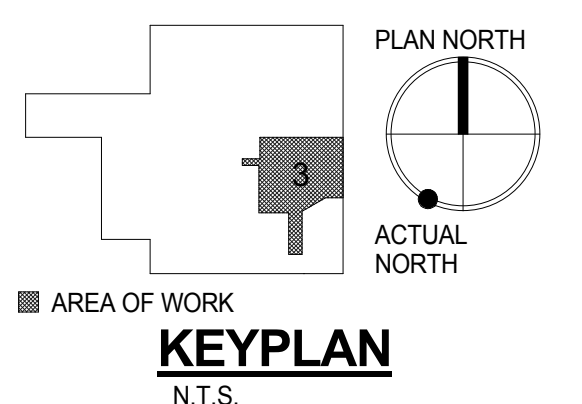


1 PHASE\_3\_3rd FLOOR PLAN - AREA A NEW WORK - PLBG  
1/4" = 1'-0"



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FULLY SPRINKLERED




			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 3 - 3RD FLOOR AREA A - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management  <b>Department of Veterans Affairs</b>		



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Office of  
Construction  
and Facilities  
Management


**Department of  
Veterans Affairs**

			CONSULTANTS:						ARCHITECT / ENGINEERS:			 <b>Miller-Remick LLC</b> M-E-P & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-5000 FAX: (856)429-5002			 <b>PF&amp;A</b> PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4205 <a href="http://www.pfa-architect.com">www.pfa-architect.com</a>			Drawing Title <b>PLUMBING PHASE 3 - 3RD FLOOR AREA B - NEW WORK</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management					
															<b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Building Number <b>1S</b>											
																		Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P3-PP1.02</b>								
NO. DESCRIPTION DATE																		Date <b>10.31.2014</b>			Checked MP			Drawn PD			Dwg. 164 of 178		



GENERAL SHEET NOTES:

1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.04 FOR PLUMBING SYSTEM RISER DIAGRAMS.
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWINGS P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:

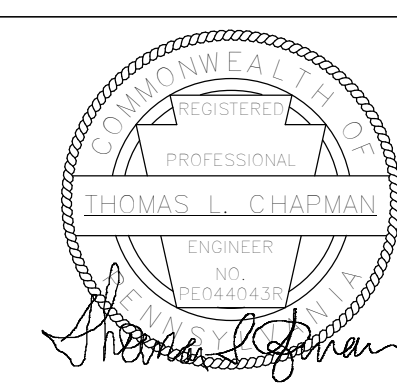
1. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
2. EXISTING SCRUB SINK TO BE REMOVED AND RELOCATED.
3. EXISTING FLOOR DRAIN TO BE REMOVED. CAP BRANCH PIPING TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED. REFER TO ARCH DRAWINGS FOR PATCH REQUIREMENTS.
4. EXISTING MEDICAL GAS ZONE VALVE PANEL ASSEMBLY TO BE REMOVED.
5. EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
6. EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
7. EXISTING WATER SUPPLY PIPING TO MEDICAL EQUIPMENT TO BE REMOVED.
8. EXISTING TEMPORARY N2 AND N2O PIPING FROM CYLINDER MAINFOLDS TO BE REMOVED AFTER INSTALLATION OF NEW GAS MAINFOLDS.

1 PHASE 4 3rd FLOOR PLAN - AERA A DEMO - PLBG

1/4" = 1'-0"

CONSULTANTS:

MILLER-REMICK CORPORATION  
PROFESSIONAL ENGINEER



ARCHITECT / ENGINEERS:



PF&A

PF&A DESIGN  
ARCHITECTURE, PLANNING, INTERIORS  
101 West Main Street, Suite 7000  
Norfolk, VA 23510  
Phone: 757-471-6537  
Fax: 757-471-6535  
www.pfa-architect.com

Drawing Title  
**PLUMBING  
PHASE 4 - 3RD FLOOR AREA A - DEMOLITION**

Approved: Medical Center Director

Project Title  
**RENOVATE SURGICAL  
SERVICE & UPGRADE  
OPERATING ROOMS**

Location **HUNTINGTON, WV**

Date  
**10.31.2014**

Checked  
MP

Drawn  
PD

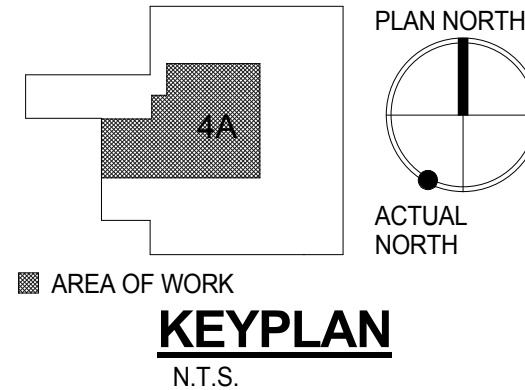
Project Number  
**581-13-101**

Building Number  
**1S**

Drawing Number  
**P4-PD1.01**

Dwg. 165 of 178

Office of  
Construction  
and Facilities  
Management



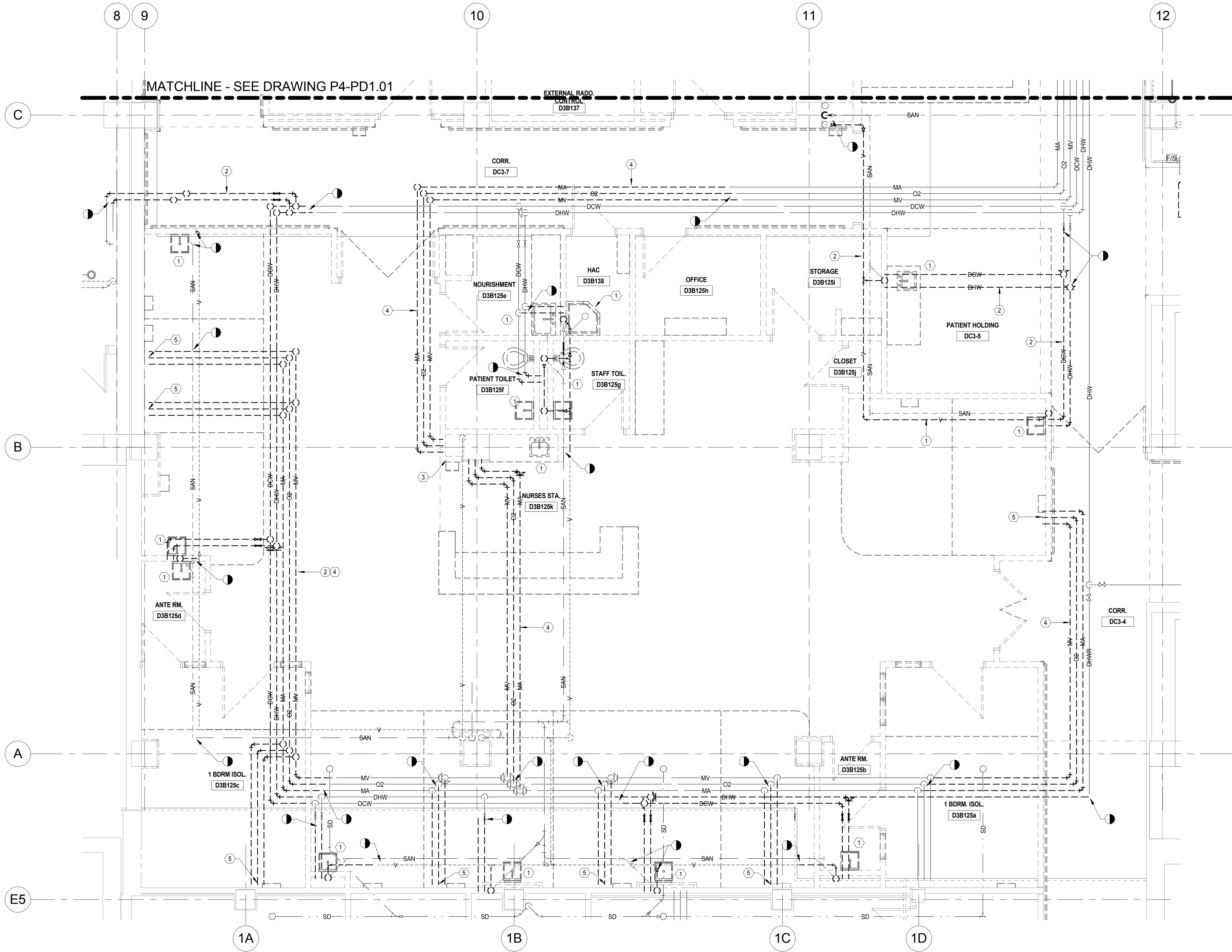
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FULLY SPRINKLERED

GENERAL SHEET NOTES:

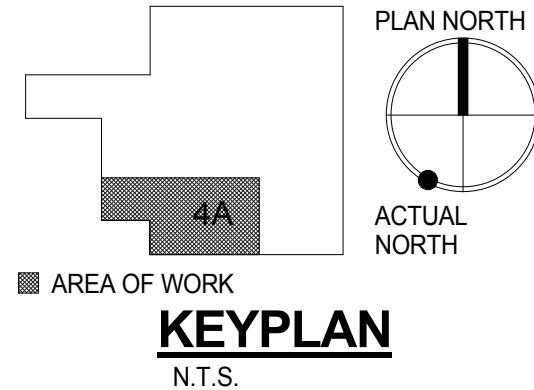
1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS.
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:





1. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND SUPPORTS TO BE REMOVED. CAP PIPING BRANCH TO REMAIN BACK AT MAIN OR STACK OR AS INDICATED.
2. EXISTING PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
3. EXISTING MEDICAL GAS ZONE VALVE PANEL ASSEMBLY TO BE REMOVED.
4. EXISTING MEDICAL GAS PIPING AND ASSOCIATED SUPPORTS TO EXISTING SURGERY EQUIPMENT AND OUTLETS TO BE REMOVED.
5. EXISTING MEDICAL GAS PIPING TO PATIENT HEAD WALL UNIT TO BE REMOVED.



1 PHASE\_4\_3rd FLOOR PLAN - AREA B DEMO - PLBG  
1/4" = 1'-0"



100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

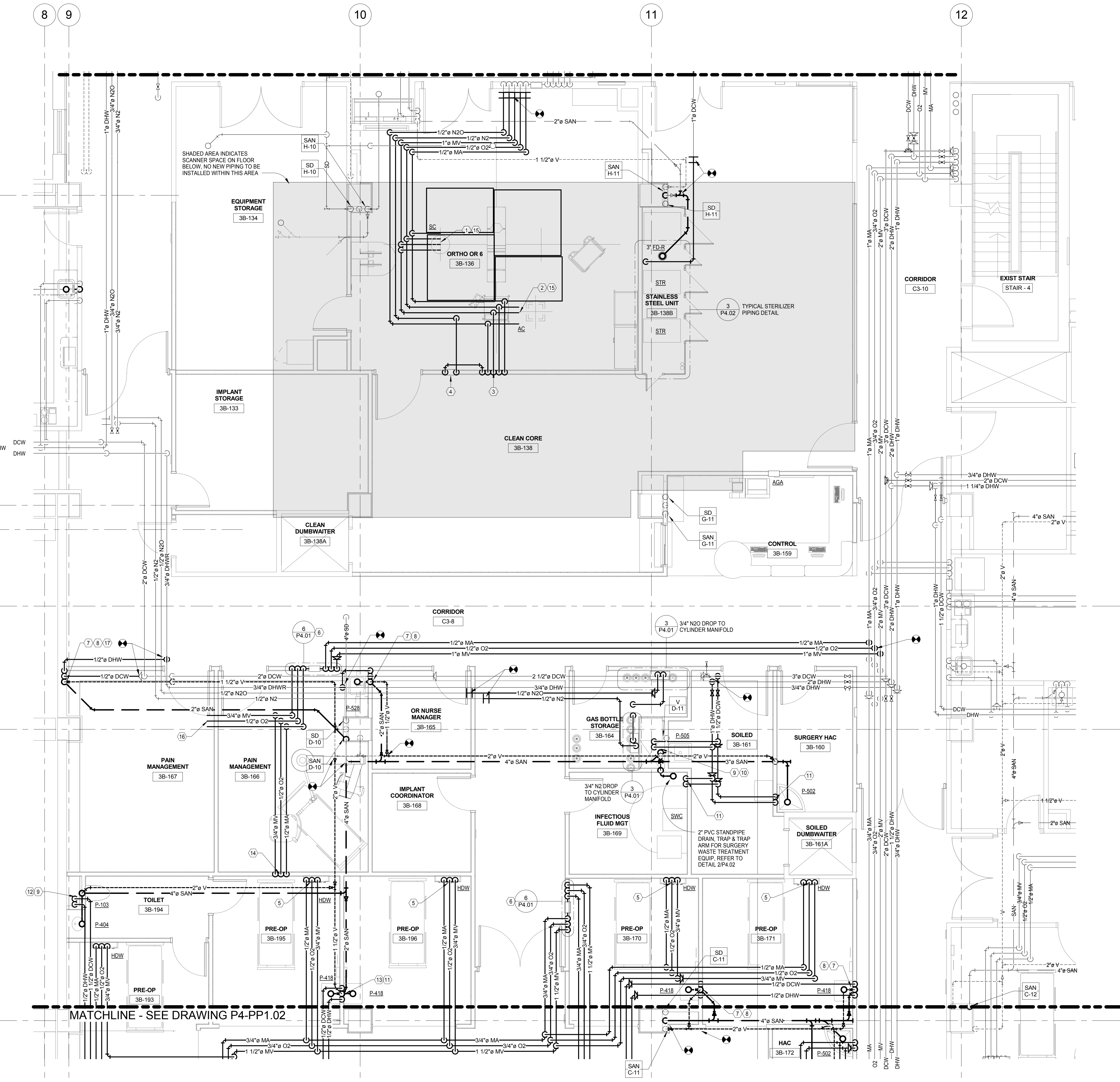
			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 4 - 3RD FLOOR AREA B - DEMOLITION</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management											
									 <b>Miller-Remick LLC</b> M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)420-4000 FAX: (856)425-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-6537 Fax: 757-471-4205 www.pfa-architect.com						Approved: Medical Center Director			Location <b>HUNTINGTON, WV</b>			Drawing Number <b>P4-PD1.02</b>		
															Date <b>10.31.2014</b>			Checked MP			Drawn PD			Dwg.166 of 178								
NO. DESCRIPTION DATE																																

GENERAL SHEET NOTES:

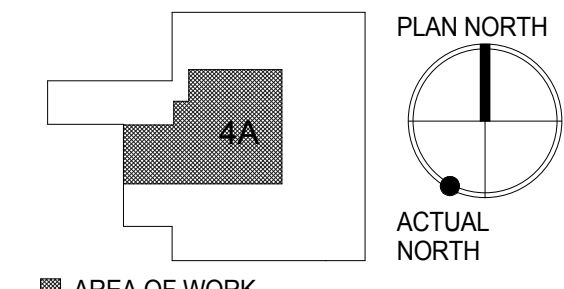
- 1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO DRAWINGS P3.01 TO P3.03 FOR PLUMBING SYSTEM RISER DIAGRAMS.
- 3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS.
- 4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES.
- 5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM.

SHEET KEYNOTES:

- 1. (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO SURGICAL COLUMN/EQUIPMENT BOOM.
- 2. 1/2" N2O, (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO ANESTHESIA COLUMN/BOOM.
- 3. 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
- 4. 1/2" N2 DROP TO PRESSURE CONTROL PANEL.
- 5. 3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.
- 6. 1-1/2" MV, 3/4" O2 & 3/4" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.
- 7. 1-1/2" SAN DN & 1-1/2" VENT RISE.
- 8. 1/2" DCW & 1/2" DHW DROP.
- 9. 4" SAN DN & 2" VENT RISE.
- 10. 1-1/2" DCW & 3/4" DHW DROP.
- 11. 3/4" DCW & 3/4" DHW DROP.
- 12. 1-1/2" DCW & 1/2" DHW DROP.
- 13. 2" SAN DN & 1-1/2" VENT RISE.
- 14. 3/4" MV, 1/2" O2 & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.
- 15. ALL LABOR AND MATERIAL TO SUPPORT NEW AND RELOCATED SURGICAL EQUIPMENT BOOMS, LIGHT BOOMS, AND GAS COLUMNS, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SUPPLEMENTAL STRUCTURAL STEEL FRAMING AND SUPPORTS TO BE PROVIDED AND INSTALLED BY BOOM/COLUMN MANUFACTURER. TYPICAL FOR ROOMS 3B-135, 3B-136, 3B-137, 3B-138, 3B-141, 3B-143 (OR'S 1-6). REFER TO MANUFACTURER SUBMITTED DETAILS AND DRAWINGS. MANUFACTURER TO SUBMIT FRAMING PLANS AND CALCULATIONS, STAMPED BY A PROFESSIONAL ENGINEER, OF NEW AND RELOCATED EQUIPMENT SUPPORTS ATTACHED TO EXISTING OR NEW STRUCTURES, TO THE ENGINEER FOR REVIEW PRIOR TO STARTING THE WORK. CONTRACTOR TO COORDINATE WORK WITH ALL TRADES PRIOR TO STARTING THE WORK.
- 16. CAP FOR FUTURE PHASE EXTENSION.
- 17. CAP 1/2" DCW, 1/2" DHW & 1-1/2" SAN AT WALL FOR FUTURE SINK.



1 PHASE 4\_3rd FLOOR PLAN - AREA A NEW WORK - PLBG  
1/4" = 1'-0"



KEYPLAN  
N.T.S.

100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title <b>PLUMBING PHASE 4 - 3RD FLOOR AREA A - NEW WORK</b>			Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>			Project Number <b>581-13-101</b>			Office of Construction and Facilities Management		



1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES
2. REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
5. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM


- 1 1-1/2" SAN DN & 1-1/2" VENT RISE.
- 2 1/2" DCW & 1/2" DHW DROP.
- 3 4" SAN DROP & 2" VENT RISE.
- 4 1-1/2" DCW & 1/2" DHW DROP.
- 5 4" SAN DN & 2" VENT RISE.
- 6 1-1/2" DCW & 3/4" DHW DROP.
- 7 1-1/2" SAN DROP & 1-1/2" VENT RISE.
- 8 1-1/2" DCW DROP.
- 9 2" SAN DN & 2" VENT RISE.
- 10 3/4" DCW & 3/4" DHW DROP.
- 11 3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.
- 12 1/2" DCW DROP.
- 13 1-1/2" VENT RISE & DN.



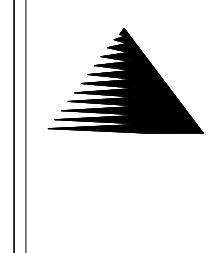
Office of  
Construction  
and Facilities  
Management


**Department of  
Veterans Affairs**

CONSULTANTS:



**Miller-Remick LLC**  
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Fax: 757-471-4205  
[www.pfa-architect.com](http://www.pfa-architect.com)

Approved: Medical Center Director

Location	HUNTINGTON WV
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Date  
**10.31.2014**

Checked	ME
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Drawn	PI
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	10
	Drawing Number

P4-PP1.02



GENERAL SHEET NOTES:

- REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
- REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
- REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM

SHEET KEYNOTES:

- 3" SAN UP TO FD INSTALLED IN PEM BY MANUFACTURER.
- CAP 1/2" DCW, 1/2" DHW & 1-1/2" SAN AT WALL FOR FUTURE SINK.

1 SANITARY WASTE SYSTEM

100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

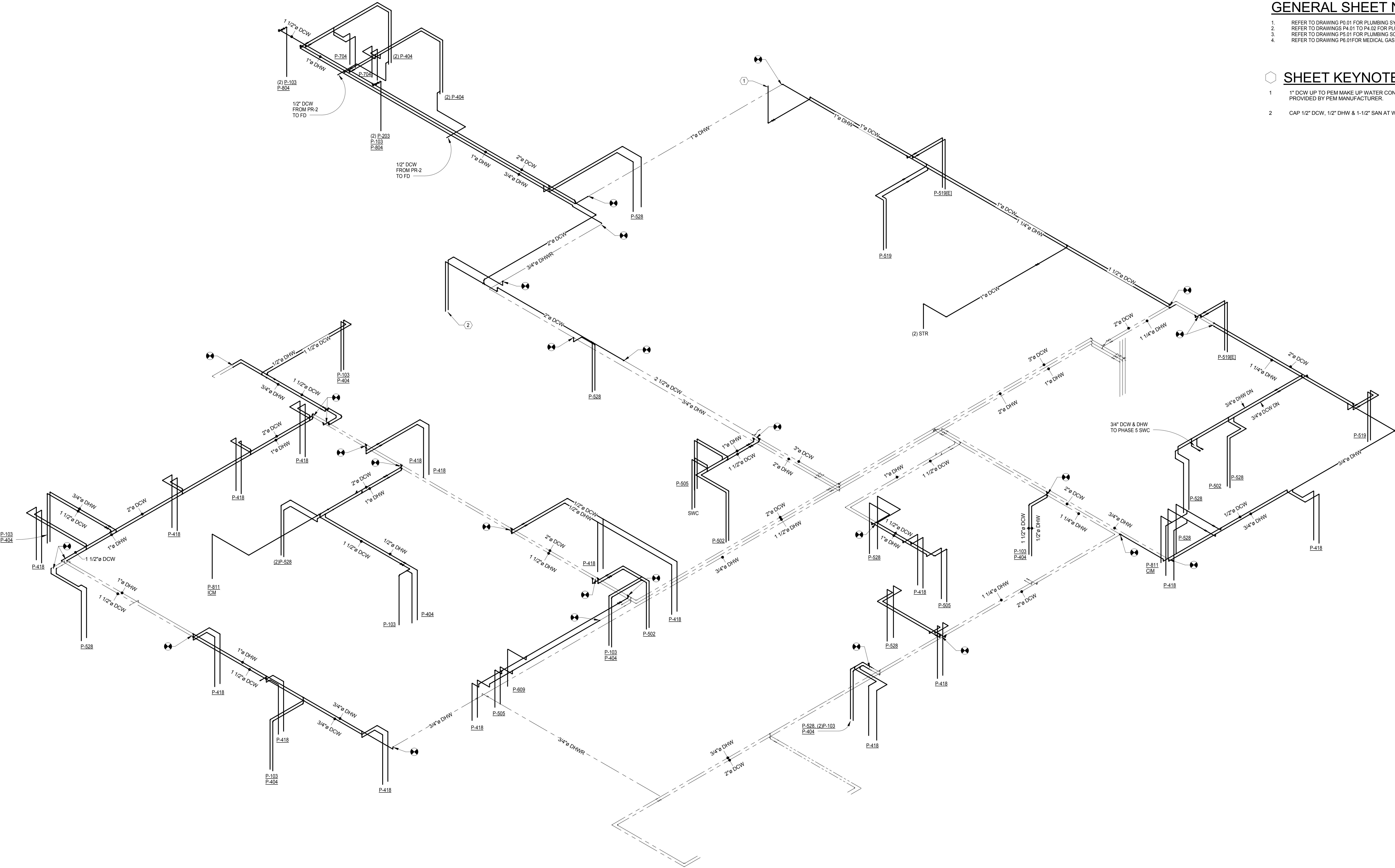
CONSULTANTS:			ARCHITECT / ENGINEERS:		Drawing Title <b>PLUMBING SANITARY WASTE RISER DIAGRAM</b>		Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>		Project Number <b>581-13-101</b>		Office of Construction and Facilities Management  Department of Veterans Affairs
					Approved: Medical Center Director		Location <b>HUNTINGTON, WV</b>		Building Number <b>1S</b>		
							Date <b>10.31.2014</b>		Drawing Number <b>P3.01</b>		
							Checked MP		Drawn PD		
NO. DESCRIPTION DATE			PFAA DESIGN ARCHITECTURE, PLANNING, INTERIORS 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-9537 Fax: 757-471-6205 www.pfaa-architect.com		PFAA DESIGN ARCHITECTURE, PLANNING, INTERIORS 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-9537 Fax: 757-471-6205 www.pfaa-architect.com		Dwg. 169 of 178				

GENERAL SHEET NOTES:

- 1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
- 3. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES
- 4. REFER TO DRAWING P6.01 FOR MEDICAL GAS SYSTEM FLOW DIAGRAM






SHEET KEYNOTES:

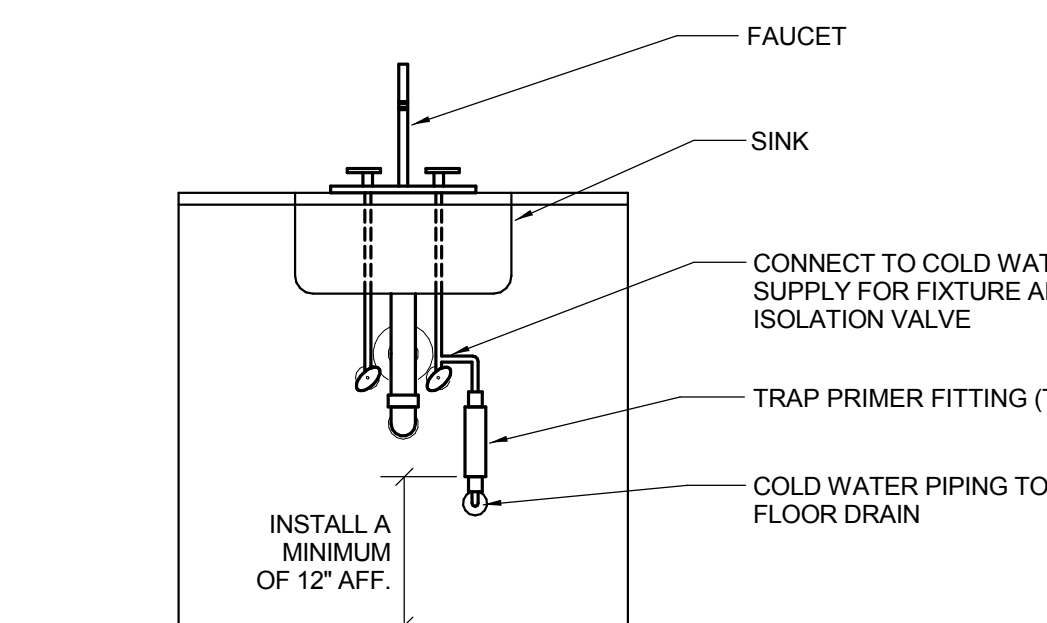
- 1. 1" DCW UP TO PEM MAKE UP WATER CONNECTION, SHUT-OFF VALVES AND BFP ASSEMBLY PROVIDED BY PEM MANUFACTURER.
- 2. CAP 1/2" DCW, 1/2" DHW & 1-1/2" SAN AT WALL FOR FUTURE SINK.



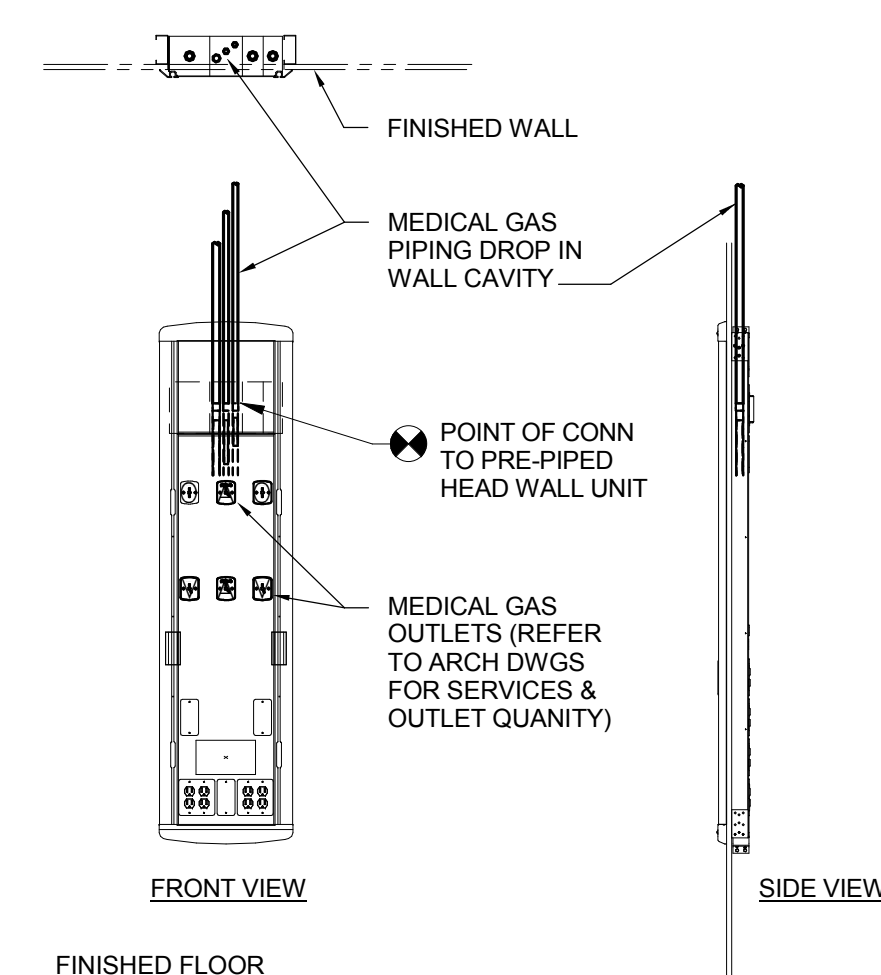
1 DOMESTIC WATER SYSTEM

100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

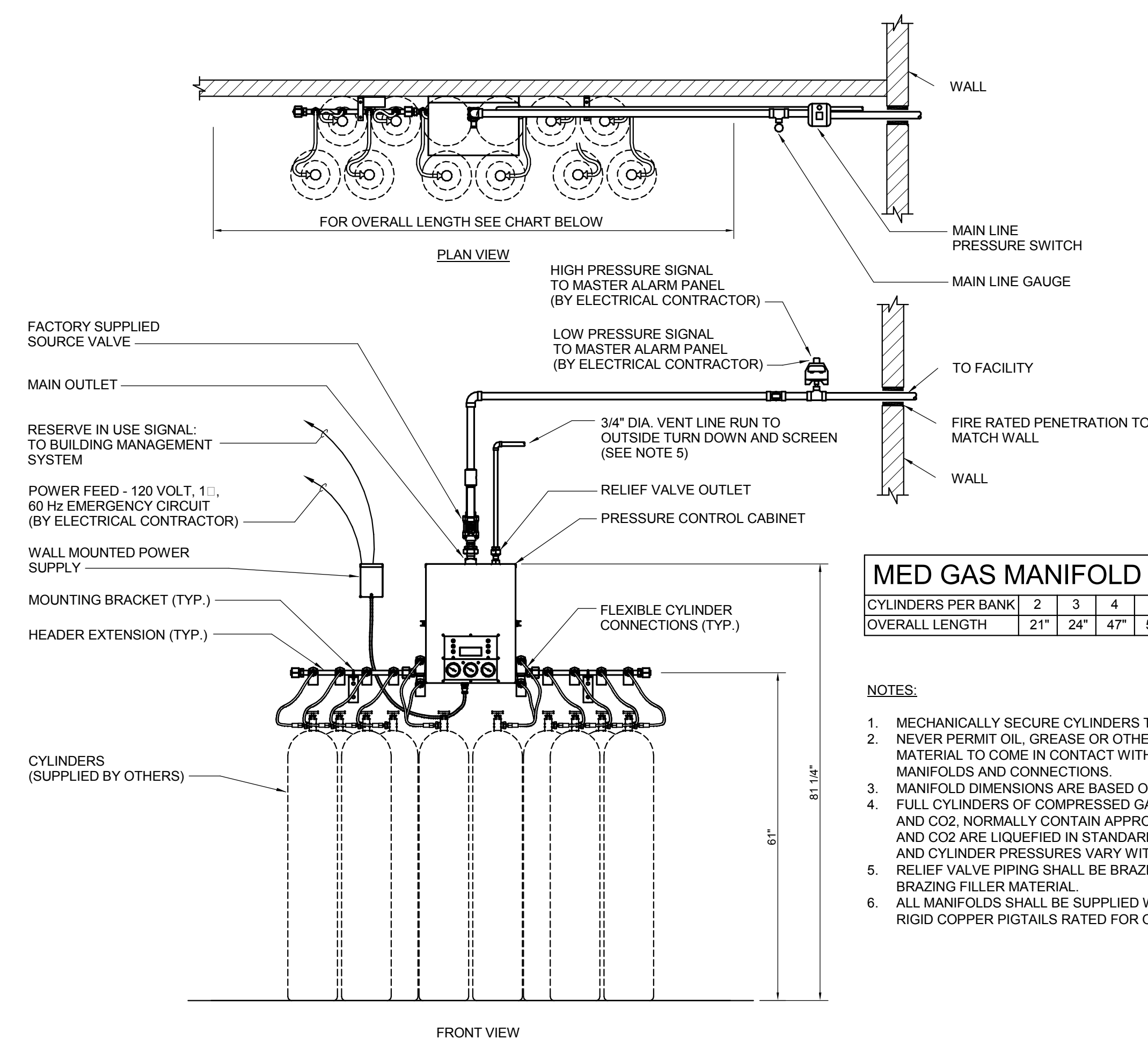
			CONSULTANTS:			<div><div>MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER</div><div></div></div>			ARCHITECT / ENGINEERS:			<div><div><div><div>Miller-Remick LLC</div><div>M.E.P. &amp; Structural Engineering A Service Disabled Veteran Owned Small Business</div></div></div><div></div><div></div><div><div>PF&amp;A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510</div><div>Phone: 757-471-0537 Fax: 757-471-4055 www.pfa-architect.com</div></div></div>			<div><div>Drawing Title <b>PLUMBING DOMESTIC WATER FLOW DIAGRAM</b></div><div>Approved: Medical Center Director</div></div>			<div><div>Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b></div><div>Location <b>HUNTINGTON, WV</b></div><div><div>Date <b>10.31.2014</b></div><div>Checked MP</div><div>Drawn PD</div></div></div>			<div><div>Project Number <b>581-13-101</b></div><div>Building Number <b>1S</b></div><div>Drawing Number <b>P3.02</b></div><div>Dwg. 170 of 178</div></div>			<div><div>Office of Construction and Facilities Management</div><div> <b>Department of Veterans Affairs</b></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



7 TRAP PRIMER TP-2 DETAIL  
SCALE: NONE



4 VERTICAL MED GAS HEAD WALL DETAIL  
SCALE NONE



3 MED GAS CYLINDER MANIFOLD DETAIL  
SCALE NONE



**NOTES:**

1. MECHANICALLY SECURE CYLINDERS TO PREVENT DAMAGING THEM.
2. NEVER PERMIT OIL, GREASE OR OTHER COMBUSTIBLE MATERIAL TO COME IN CONTACT WITH CYLINDERS, MANIFOLDS AND CONNECTIONS.
3. MANIFOLD DIMENSIONS ARE BASED ON H-TYPE CYLINDER.
4. FULL CYLINDERS OF COMPRESSED GAS, SUCH AS OTHER THAN N<sub>2</sub> AND CO<sub>2</sub>, NORMALLY CONTAIN APPROX. 2,000 PSIG. N<sub>2</sub> AND CO<sub>2</sub> ARE LIQUEFIED IN STANDARD FULL CYLINDERS.
5. CYLINDER PRESSURES VARY WITH TEMPERATURE.
6. RELIEF VALVE PIPING SHALL BE BRAZED WITH A SILVER BRAZING FILLER MATERIAL.
7. ALL FLOWLINES SHALL BE SUPPLIED WITH PRE-FORMED FLEXIBLE COPPER TUBING RATED FOR OXYGEN SERVICE.

**NOTES:**

1. MECHANICALLY SECURE CYLINDERS TO PREVENT DAMAGING THEM.
2. NEVER PERMIT OIL, GREASE OR OTHER COMBUSTIBLE MATERIAL TO COME IN CONTACT WITH CYLINDERS, MANIFOLDS AND CONNECTIONS.
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4. FULL CYLINDERS OF COMPRESSED GAS, SUCH AS OTHER THAN N<sub>2</sub> AND CO<sub>2</sub>, NORMALLY CONTAIN APPROX. 2,000 PSIG. N<sub>2</sub> AND CO<sub>2</sub> ARE LIQUEFIED IN STANDARD FULL CYLINDERS.
5. CYLINDER PRESSURES VARY WITH TEMPERATURE.
6. RELIEF VALVE PIPING SHALL BE BRAZED WITH A SILVER BRAZING FILLER MATERIAL.
7. ALL FLOWLINES SHALL BE SUPPLIED WITH PRE-FORMED FLEXIBLE COPPER TUBING RATED FOR OXYGEN SERVICE.

	CONSULTANTS:	
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**ARCHITECT / ENGINEERS:**

**Miller-Remick LLC**  
 M.E.P. & Structural Engineering  
 A Service Disabled Veteran Owned  
 Small Business


1010 KINGS HIGHWAY SOUTH  
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**SDVOSB**  
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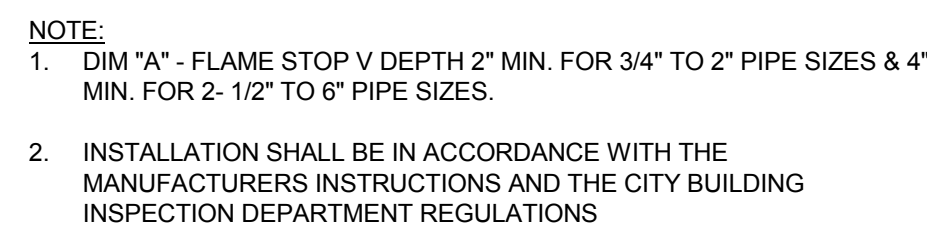
Drawing Title	
<b>PLUMBING DETAILS</b>	
Approved: Medical Center Director	

Project Number	<b>581-13-101</b>
Building Number	<b>1S</b>
Drawing Number	<b>P4.01</b>
Dwg. 171 of 178	

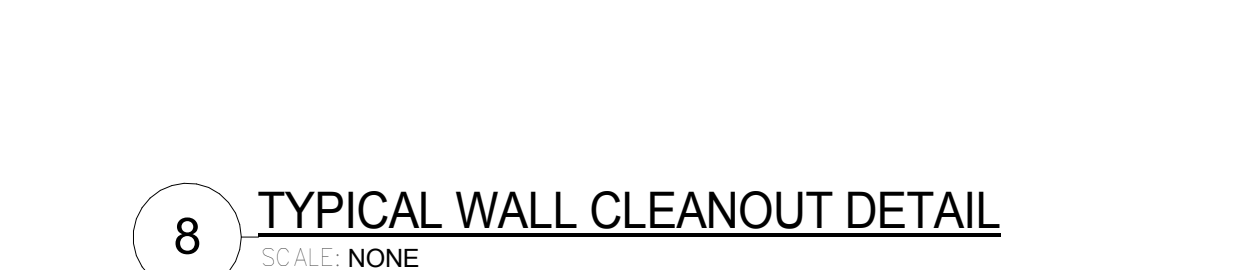
Office of  
Construction  
and Facilities  
Management

 **Department of  
Veterans Affairs**

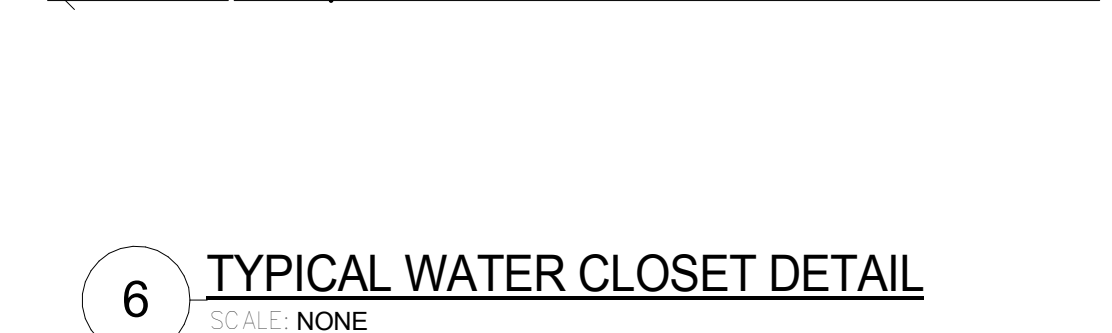




10 TYPICAL FLOOR PENETRATION DETAIL  
SCALE: NONE



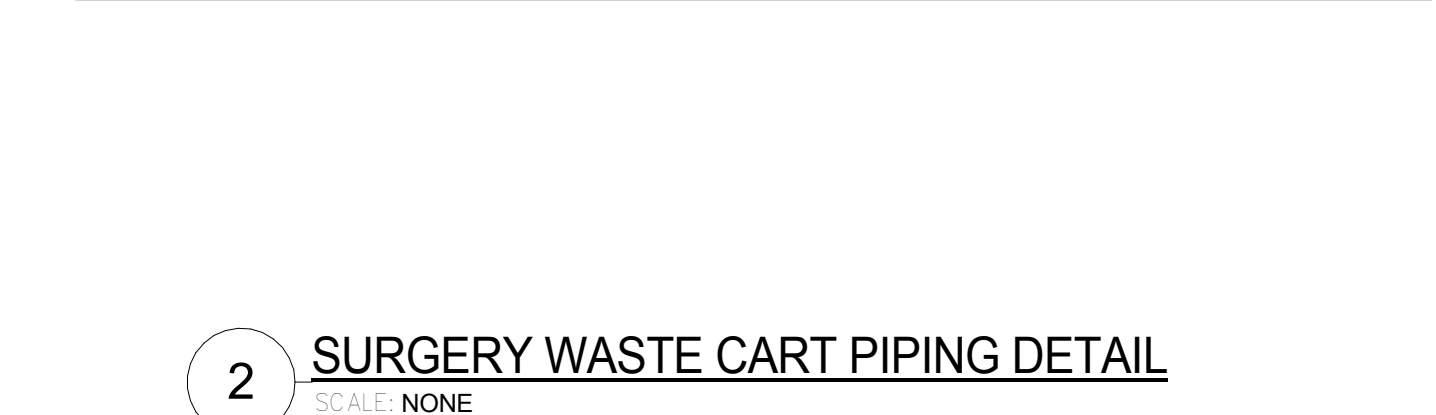
## 8 TYPICAL WALL CLEANOUT DETAIL



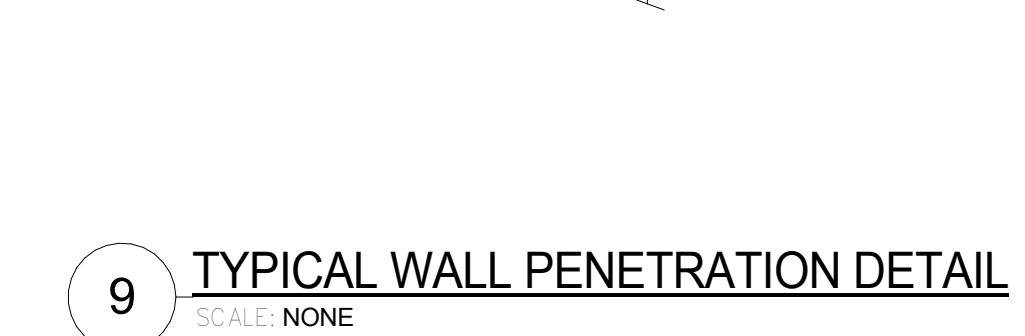
6 TYPICAL WATER CLOSET DETAIL  
SCALE: NONE



4 TYPICAL FD-A FLOOR DRAIN DETAIL  
SCALE: NONE



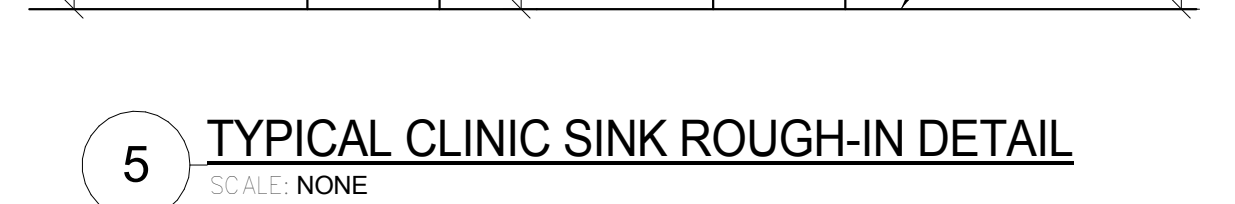
2 SURGERY WASTE CART PIPING DETAIL  
SCALE: NONE



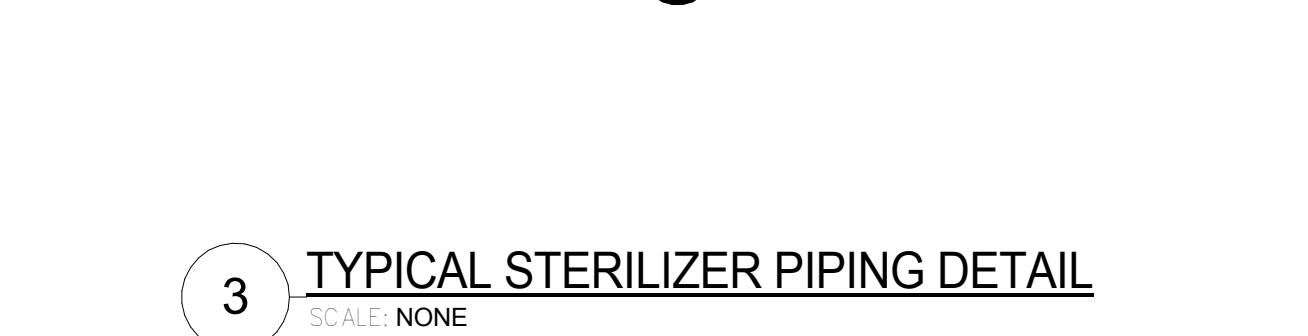
9 TYPICAL WALL PENETRATION DETAIL  
SCALE: NONE



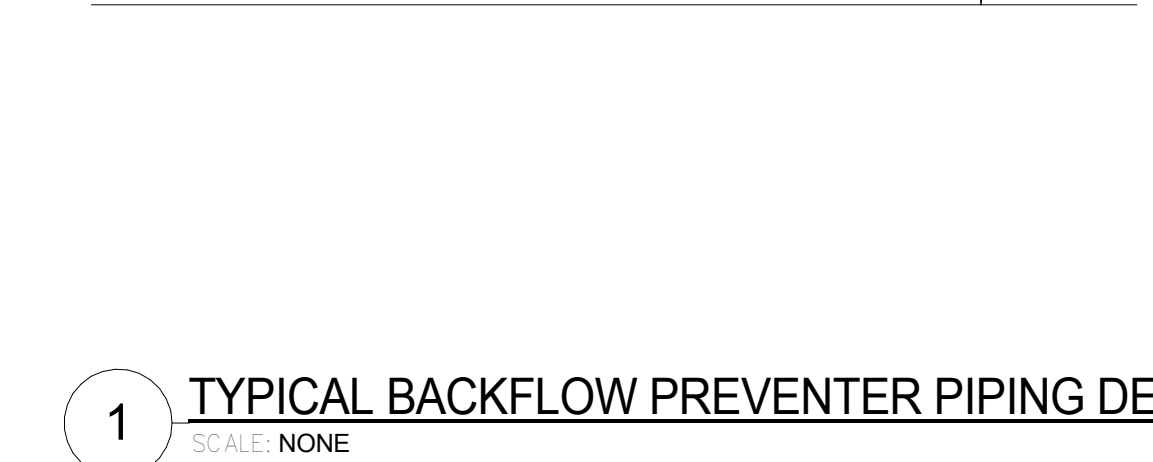
7 TYPICAL TRAPEZE PIPE SUPPORT DETAIL  
SCALE: NONE



5 TYPICAL CLINIC SINK ROUGH-IN DETAIL  
SCALE: NONE



### 3 TYPICAL STERILIZER PIPING DETAIL



1 TYPICAL BACKFLOW PREVENTER PIPING DETAIL  
SCALE: NONE

VA FORM 08-6231


\_\_\_\_\_

**Miller-Remick LLC**  
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Approved: Medical Center Director

Location <b>HUNTINGTON, WV</b>		
Date <b>10.31.2014</b>	Checked <b>MP</b>	Drawn <b>PD</b>

Drawing Number  
**P4.02**  
Dwg. 172 of 178

<b>REGICAL</b> <b>GRADE</b> <b>COMS</b>		Project Number <b>581-13-101</b>		Office of Construction and Facilities Management
		Building Number <b>1S</b>		
ww		Drawing Number <b>P4.02</b>		
checked	Drawn	Dwg. 172 of 178		 <b>Department of Veterans Affairs</b>
MP	PD			



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
		IN	IN	IN	IN					
P-103	WATER CLOSET	4	2	1.25		6	10	N/A	YES	WALL HUNG
P-203	URINAL	2	1.5	.75		2	3	N/A	YES	WALL HUNG
P-404	LAVATORY	1.5	1.5	.5	.5	1	1	NO	YES	BOWL INTIGRAL W/ COUNTERTOP
P-418	LAVATORY	1.5	1.5	.5	.5	1	1	NO	YES	WALL HUNG
P-502	SERVICE SINK	3	1.5	.75	.75	2	4	NO	NO	FLOOR MOUNTED
P-505	CLINIC SINK	4	2	1	1	5	4	N/A	NO	REFER TO DETAIL 5/P4.02
P-519	SCRUB SINK	1.5	1.5	.75	.75	3	2	NO	YES	REFER TO DETAIL 1/P4.01
P-519[E]	SCRUB SINK (RELOCATED)	1.5	1.5	.75	.75	3	2	NO	YES	EXISTING RELOCATED, REFER TO DETAIL 1/P4.01
P-528	SINK	2	1.5	.75	.75	3	2	YES	NO	UNDERMOUNTED, STAINLESS STEEL
P-609	ELEC WATER COOLER	1.5	1.5	.5		.5	1	N/A	NO	DUEL HEIGHT
P-704	SHOWER	2	1.5	.5	.5	2	2	N/A	NO	PROVIDE MIXING VALVE BY-PASS FOR SYSTEM SANITIZATION FLUSH
P-710	EMERGENCY EYE WASH			.5				N/A	NO	
P-804	HOSE BIBB			.75				N/A	NO	
P-811	ICE MACHINE BOX			.5				N/A	NO	

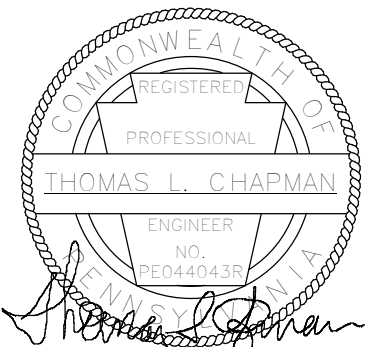
EQUIPMENT CONNECTION SCHEDULE																
MARK	LOCATION	SYSTEM AND/OR SERVICE	EQUIPMENT DESCRIPTION	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	MEDICAL AIR	VACUUM	EVAC VACUUM	OXYGEN	NITROGEN	NITROS OXIDE	CARBON DIOXIDE	OTHER	REMARKS
				IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	
AC	OR'S AND PAIN MANAGEMENT	MEDICAL GASES	ANESTHESIA COLUMN	NA	NA	NA	NA	.5	.75	.75	.5	-	.5	-	-	
SC	OR'S	MEDICAL GASES	SURGICAL COLUMN	NA	NA	NA	NA	.5	.75	.75	.5	-	.5	NA	-	EXISTING TO BE RELOCATED
SWC	INFECTIOUS FLUID MGT		MED WASTE TREATMENT	2	-	.75	.75	NA	NA	NA	NA	NA	NA	NA	-	EXISTING TO BE RELOCATED
STR	CLEAN CORE		STERILIZER	1-1/2	-	.75	-	NA	NA	NA	NA	NA	NA	NA	-	EXISTING TO BE RELOCATED
HDW	PATIENT BEDS	MEDICAL GASES	HEAD WALL	NA	NA	NA	NA	.5	.75	-	.5	-	-	-	-	
CIW	PACU		ICE MACHINE	.5 INDIRECT	-	.5	-	NA	NA	NA	NA	NA	NA	NA	-	CONTERTOP UNIT, PROVIDE BFP
ICM	PRE-OPT		ICE MACHINE	1 INDIRECT	-	.5	-	NA	NA	NA	NA	NA	NA	NA	-	EXISTING RELOCATED, PROVIDE BFP

MEDICAL GAS ALARM PANEL SCHEDULE				
MARK	LOCATION	TYPE OF PANEL	GAGES	SERVICE INDICATOR LIGHTS
SGA	SURGERY CONTROL ROOM	AREA ALARM PANEL	YES	OXYGEN LINE PRESSURE ABNORMAL NITROUS OXIDE LINE PRESSURE ABNORMAL MEDICAL AIR LINE PRESSURE ABNORMAL MEDICAL VACUUM LINE VACUUM LOW TEST BUTTON
AGA	RECOVERY ROOMS (PACU) PRE-OP PAIN MANAGEMENT	AREA (ZONE) ALARM PANEL	YES	OXYGEN LINE PRESSURE ABNORMAL MEDICAL AIR LINE PRESSURE ABNORMAL MEDICAL VACUUM LINE VACUUM LOW TEST BUTTON

NO.	DESCRIPTION	DATE

CONSULTANTS:

MILLER-REMICK CORPORATION  
PROFESSIONAL ENGINEER



ARCHITECT / ENGINEERS:



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Service Disabled  
Veteran Owned  
Small Business



PF&A  
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Drawing Title <b>PLUMBING SCHEDULES</b>
Approved: Medical Center Director

Project Title <b>RENOVATE SURGICAL SERVICE &amp; UPGRADE OPERATING ROOMS</b>	
Location <b>HUNTINGTON, WV</b>	
Date <b>10.31.2014</b>	Checked MP
	Drawn PD


Project Number  
**581-13-101**

Building Number  
**1S**

Drawing Number  
**P5.01**

Dwg. 173 of 178

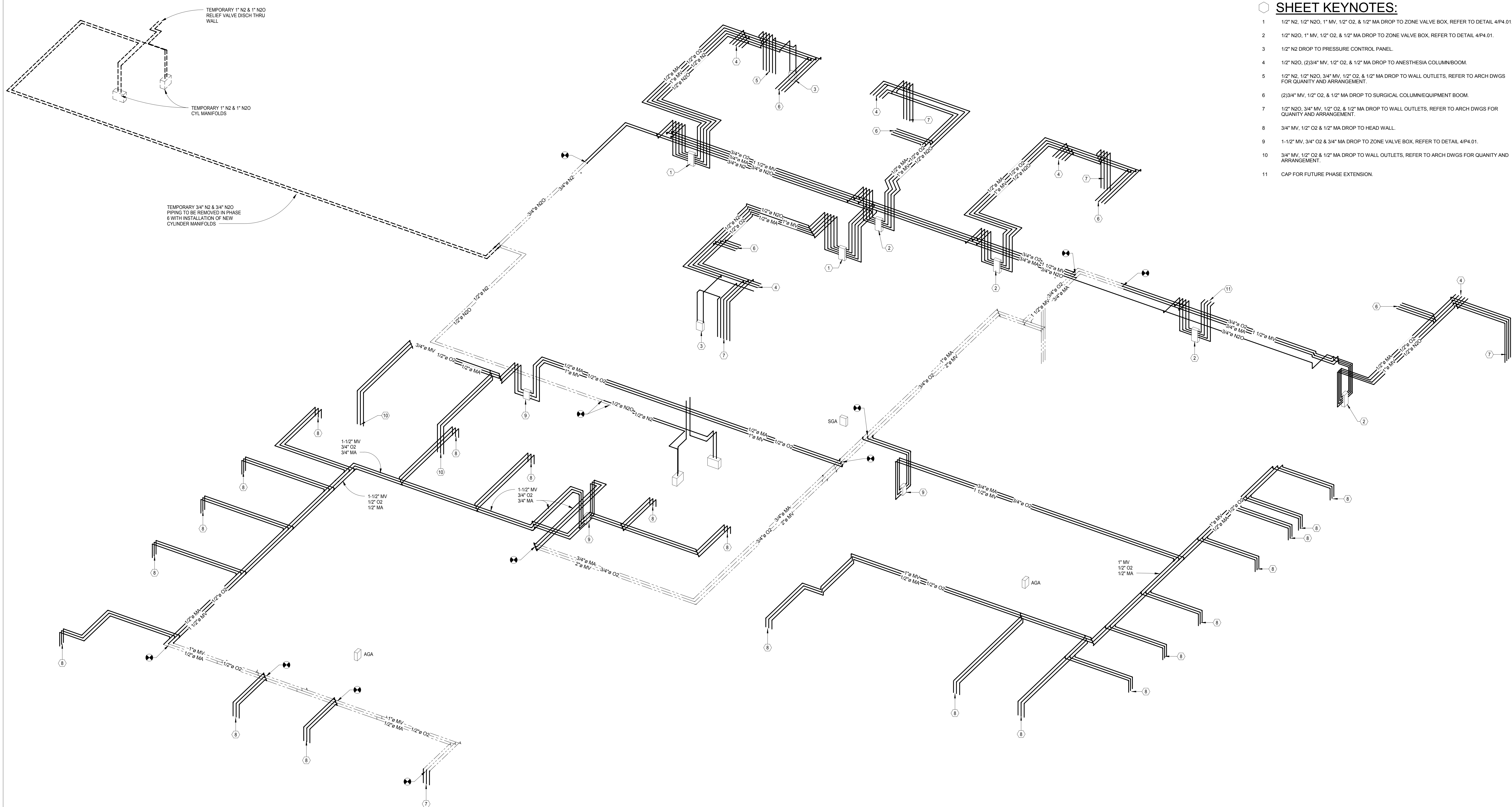
Office of Construction and Facilities Management

 Department of Veterans Affairs


100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

1. REFER TO DRAWING P0.01 FOR PLUMBING SYMBOLS ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DRAWINGS P3.01 TO P3.0X FOR PLUMBING SYSTEM RISER DIAGRAMS
3. REFER TO DRAWINGS P4.01 TO P4.02 FOR PLUMBING DETAILS
4. REFER TO DRAWING P5.01 FOR PLUMBING SCHEDULES

1	1/2" N2, 1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.	
2	1/2" N2O, 1" MV, 1/2" O2, & 1/2" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.	
3	1/2" N2 DROP TO PRESSURE CONTROL PANEL.	
4	1/2" N2O, (2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO ANESTHESIA COLUMN/BOOM.	
5	1/2" N2, 1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.	A
6	(2)3/4" MV, 1/2" O2, & 1/2" MA DROP TO SURGICAL COLUMN/EQUIPMENT BOOM.	
7	1/2" N2O, 3/4" MV, 1/2" O2, & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.	
8	3/4" MV, 1/2" O2 & 1/2" MA DROP TO HEAD WALL.	
9	1-1/2" MV, 3/4" O2 & 3/4" MA DROP TO ZONE VALVE BOX, REFER TO DETAIL 4/P4.01.	
10	3/4" MV, 1/2" O2 & 1/2" MA DROP TO WALL OUTLETS, REFER TO ARCH DWGS FOR QUANTITY AND ARRANGEMENT.	
11	CAP FOR FUTURE PHASE EXTENSION.	



## 1 MEDICAL GAS FLOW DIAGRAM

			CONSULTANTS:		<div><div>MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER</div><div> THOMAS J. CHAPMAN ENGINEER NO. 100</div></div>	
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